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NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
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NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003

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FILE 'CAPLUS' ENTERED AT 13:24:48 ON 30 OCT 2003
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FILE COVERS 1907 - 30 Oct 2003 VOL 139 ISS 18
FILE LAST UPDATED: 29 Oct 2003 (20031029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s (water soluble)
    2078642 WATER
    233927 WATERS
    2129949 WATER
        (WATER OR WATERS)
    78142 SOLUBLE
    2089 SOLUBLES
    80115 SOLUBLE
        (SOLUBLE OR SOLUBLES)
    552838 SOL
    14859 SOLS
    558689 SOL
        (SOL OR SOLS)
    581505 SOLUBLE
        (SOLUBLE OR SOL)
L1      126176 (WATER SOLUBLE)
        (WATER (W) SOLUBLE)

=> s (water dispersable)
    2078642 WATER
    233927 WATERS
    2129949 WATER
        (WATER OR WATERS)
    154 DISPERSABLE
L2      36 (WATER DISPERSABLE)
        (WATER (W) DISPERSABLE)

=> s l1 or l2
L3      126203 L1 OR L2

=> s ?silane
L4      154946 ?SILANE

=> s silane?
L5      84726 SILANE?

=> s l4 or l5
L6      160318 L4 OR L5

=> s l3 and l6
L7      1146 L3 AND L6

=> s fluoro?
L8      347521 FLUORO?

=> s F or fluorine
    543177 F
    86607 FLUORINE
```

463 FLUORINES
86867 FLUORINE
(FLUORINE OR FLUORINES)

L9 591596 F OR FLUORINE

=> s 18 or 19
L10 873033 L8 OR L9

=> s 17 and 110
L11 116 L7 AND L10

=> d 111 1-116 abs ibib

L11 ANSWER 1 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title compns. contain water-sol. aminosilane
 couplet-treated clays dispersed in rubbers. A kneaded nitrile rubber
 compn. contg. a peroxide and 20 phr KHM 602-treated Kunipia F
 showed good calender-rolling ability, transparency (well dispersed), and
 gas-impermeability.

ACCESSION NUMBER: 2003:809431 CAPLUS
 TITLE: Rubber compositions with gas-barrier ability and
 processability and their manufacture
 INVENTOR(S): Sumida, Katsuhiro; Mashimo, Shigehiko; Takano,
 Nobukazu
 PATENT ASSIGNEE(S): Bridgestone Corp., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 6 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003292677	A2	20031015	JP 2002-103729	20020405
PRIORITY APPLN. INFO.: JP 2002-103729 20020405				

L11 ANSWER 2 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title compns. are prep'd. by mixing rubber latices with clays and
 water-sol. aminosilane couplets. A Nipol LX
 110-and Kunipia F-contg. sq. latex was stirred with KHM 602 to
 form a paste with good dryness at 80.degree. over 18 h, which was mixed
 with a peroxide to form a compn. showing good calender-rolling ability,
 transparency (well dispersed), and gas-impermeability.

ACCESSION NUMBER: 2003:805841 CAPLUS
 TITLE: Rubber compositions with gas-barrier ability and
 processability and their manufacture
 INVENTOR(S): Sumida, Katsuhiro; Mashimo, Shigehiko; Takano,
 Nobukazu
 PATENT ASSIGNEE(S): Bridgestone Corp., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003292678	A2	20031015	JP 2002-103722	20020405
PRIORITY APPLN. INFO.: JP 2002-103722 20020405				

L11 ANSWER 3 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title inks comprise colorants, moisturizing agents, and water-
 sol. materials contg. fluoroalkyl groups, where the
 water-sol. materials undergo polycondensation reaction
 without water. Thus, 100 g 2-trimethoxysilylpropylamine and 61.1 g
 3-trifluoromethyl-ethyltrimethoxysilane were stirred at
 60.degree. for 1 h to give a copolymer, 10% of which was mixed with C.I.
 Acid Black 2 5, glycerin 10, diethylene glycol 7, and water 68% and used
 for an ink-jet printer, showing good dischargeability.

ACCESSION NUMBER: 2003:767984 CAPLUS
 TITLE: Inks for ink-jet recording, ink cartridges, nozzle
 plates for ink-jet recording, ink-jet heads, and
 recording devices
 INVENTOR(S): Soga, Masamori; Arase, Hidekazu
 PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 29 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003277664	A2	20031002	JP 2002-353175	20021205
PRIORITY APPLN. INFO.: JP 2002-5568 A 20020115				

L11 ANSWER 4 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The heat- and wear-resistant energy-efficient metal coating is prep'd. the
 following steps: (1) treating 2-8 wt% nanometer SiO₂ powder and 2-8 wt%
 nanometer TiO₂ powder in 10 wt% silane coupling agent soln.,
 then adding 15-25% alkali soln. to obtain a nanoparticle slurry; (2)
 mixing 3-5 wt% SiO₂ (>300 meshes) with 3-5 wt% Fe₂O₃, 4-10 wt% Sic, 1-2
 wt% CaO, 1-2 wt% Na₂SiF₆, 8-10 wt% kaolin and 5-10 wt% feldspar powder to
 obtain a filler mix; (3) feeding under const. stirring and grinding, in
 sequence 10-15 wt% of a 30 wt% caigou soln., 10-15 wt% of a modified
 silicone sol, 4-8 wt% acrylic acid, 6-10 wt% water sol
 . silicone oil, 4-8 wt% of a modified water glass, the filler mix, 0.5-1
 wt% of a 30 wt% org. bentonite soln., 0.5-1 wt% of a 30 wt% CM-cellulose
 soln., 0.5-1 wt% di-Bu phthalate, 0.3-0.5 wt% acetylacetone, 0.3-0.5 wt%
 DMF and 0.6-1 wt% of a silane coupling agent soln., adjusting
 viscosity with deionized water.

ACCESSION NUMBER: 2003:738102 CAPLUS
 DOCUMENT NUMBER: 139:215900
 TITLE: Heat- and abrasion-resistant metal coating
 composition
 INVENTOR(S): Zeng, Qingjin
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhanzhi Shengqing Gongkai Shuomingshu, 8 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1357583	A	20020710	CN 2001-130126	20011226
PRIORITY APPLN. INFO.: CN 2001-130126 20011226				

L11 ANSWER 5 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB A water-sol. or water-dispersible fluorochem silane has formula $X\text{M}_n\text{R}_m\text{Si}_n\text{R}'_m$ [X = initiator residue or H; M units derived from .gtoreq.1 fluorinated monomer; M_n = units derived from .gtoreq.1 nonfluorinated monomer; R_n = units having a silyl group SiY₄Y₆, Y₄, Y₅ and Y₆ = alkyl group, an aryl group or a hydrolyzable group; G = monovalent org. group comprising the residue of a chain transfer agent; n = 1-100; m = 0-100; and r = 0-100; and num-r .gtoreq.2; providing .gtoreq.1 of the following conditions is fulfilled: (a) G contains a silyl group SiY₁Y₂Y₃, where Y₁, Y₂ and Y₃ = alkyl, aryl or a hydrolyzable group and .gtoreq.1 of Y₁, Y₂ and Y₃ = hydrolyzable H₂O solubilizing group; (b) r .gtoreq.1 and .gtoreq.1 of Y₄, Y₅ and Y₆ = a hydrolyzable H₂O solubilizing group]

ACCESSION NUMBER: 2003:717440 CAPLUS

DOCUMENT NUMBER: 139:231423

TITLE: Water-soluble or water-dispersible fluorochemical silanes for oil and water repellent substrates

INVENTOR(S): Dams, Rudolf J.

PATENT ASSIGNEE(S): Belg. U.S. Pat. Appl. Publ., 13 pp.

SOURCE: CODEN: USXXAC

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003168783	A1	20030911	US 2002-53001	20020117
			US 2002-53001	20020117

PRIORITY APPLN. INFO.: US 2002-53001 20020117

L11 ANSWER 6 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The compns. have good cond., film-formability and storage stability, can be adjusted into variable viscosity with the use of a thickener and film thickness, and contain: (A) a sulfonate- or/and carboxyl-contg. water-sol. conductive polymer, (B) a crosslinking agent, (C1) water, (C2) org. solvent, (D) a thickener, (E) a polymeric binder, and (F) a surfactant. In one example a compn. comprises poly(2-sulfo-5-methoxy-1,4-iminophenylene) (prepn. given) 3, .gamma.-glycidoxypropylmethyldimethoxysilane 1.5, water 65, acetone 35, and Adekanol OH 420 (a thickening agent) 3 parts.

ACCESSION NUMBER: 2003:582623 CAPLUS

DOCUMENT NUMBER: 139:151161

TITLE: Conductive coating compositions and an electrostatic coating method therefor

INVENTOR(S): Uzawa, Masashi; Saito, Takashi

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003213149	A2	20030730	JP 2002-10718	20020118
			JP 2002-10718	20020118

PRIORITY APPLN. INFO.: JP 2002-10718 20020118

L11 ANSWER 7 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Title films show a color tone (flop value; the change of L value in JIS Z 8730 L* a*b* system) of 10-60 and are prepnd. from compns. contg. (a) 100 parts 30-45 water-sol. or dispersible OH and COOH group-contg. vinyl polymers having acid value of 20-300 and OH value (V_H) of .gtoreq.20, 10-35% OH- and alkoxy group-contg. vinyl polymers with V_H of 20-400, and 35-45% aminoplasts and (b) 0.05-15 parts polybutadiene (preferably, water-dispersed one). An aq. compn. contg. acrylic acid-Bu acrylate (I)-2-ethylhexyl acrylate (II)-2-hydroxyethyl acrylate (III)-2-hydroxyethyl methacrylate (IV)-Me methacrylate (V)-styrene (VI) copolymer 40, dimethylaminoethanol 2.5, I-II-III-IV-V-VI-3-methacryloyloxypropylmethoxysilane copolymer 25, Cymel 235 35, and an emulsion (Nissos PB-G 3000 50, Neopelex F 25 12, and H₂O 38 parts). 0.05 part was electrodeposited on an alumite-treated Al plate and baked at 180 degree. to form a 10-.mu.m film with 60.degree. gloss 14, flop value 55.6, good smoothness and die mark hiding ability.

ACCESSION NUMBER: 2003:506817 CAPLUS

DOCUMENT NUMBER: 139:70503

TITLE: Matte electrodeposition coating films and resin compositions therefor

INVENTOR(S): Maeda, Satoru; Nakane, Yukihiro; Kobata, Katsuya

PATENT ASSIGNEE(S): Honey Kasei K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003183568	A2	20030703	JP 2001-402706	20011217
			JP 2001-402706	20011217

PRIORITY APPLN. INFO.: JP 2001-402706 20011217

L11 ANSWER 8 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB An app. for treating an exhaust gas has a pre-treatment section for removing at least one of a powdery component, a water-sol. component and a hydrolytic component from the exhaust gas contg. at least one of a fluorine compnd. and CO, and a heating oxidative decompp. section for performing heating oxidative decompp. of the at least one of the fluorine compnd. and CO to detoxify the exhaust gas. The app. has a post-treatment section for post-treating a acid gas such as HF which has been produced by the heating oxidative decompp.

ACCESSION NUMBER: 2003:454181 CAPLUS

DOCUMENT NUMBER: 139:113111

TITLE: Method and apparatus for treating exhaust gas

INVENTOR(S): Shinohara, Toyoji; Mori, Yoichi; Suzuki, Yasuhiko; Aono, Hiroshi; Shirao, Yuji

PATENT ASSIGNEE(S): Ebara Corporation, Japan

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003047729	A1	20030612	WO 2002-JP12520	20021129
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				

PRIORITY APPLN. INFO.: JP 2001-370656 A 20011204

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The purpose of this communication is to illustrate the facile synthesis of asym., di-functional poly(ethylene glycol) (PEG) linkers that can be utilized to incorporate various components into biol. systems. A com. available, asym. Me methacrylate (MMA) PEG underwent a series of org. transformations to prep. a α -alkoxy- ω -amino PEG linker in high yield and through put. CdS/SiO₂ nanoparticles were prep'd. and functionalized by a series of surface modification reactions modified involving the prep'd. PEG linker to yield functionalized, water-sol. nanoparticles. The functionality of the nanoparticles was dictated by the chain end functionality of the PEG linker. Further work involves the utilization of the functionalized nanoparticles into various systems.

ACCESSION NUMBER: 2003:210992 CAPLUS
 DOCUMENT NUMBER: 139:7333
 TITLE: Synthesis of an α -alkoxy- ω -amino poly(ethylene glycol) for use in ligating biological molecules to nanoparticles
 AUTHOR(S): Costanzo, Philip J.; Patten, Timothy E.; Smith, Rosemary
 CORPORATE SOURCE: University of California at Davis, Davis, CA, 95616, USA
 SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2003), 44(1), 554-555
 PUBLISHER: American Chemical Society, Division of Polymer Chemistry
 DOCUMENT TYPE: Journal; (computer optical disk)
 LANGUAGE: English
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 10 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title Cu foils are treated, prior to coating, with silane coupling agents RnSiX_{4-n} (R = alkyl or Ph group (may contain groups substituted by F, and groups such as ether bonds inactive to resins), X = hydrolysis group such as Cl, OCH₃, OC₂CH₂CH₃, and n = 1-3). The Cu foils have excellent soft etching characteristic.

ACCESSION NUMBER: 2003:172338 CAPLUS
 DOCUMENT NUMBER: 138:230079
 TITLE: Copper foils coated with water-soluble resin carriers for printed circuit boards
 INVENTOR(S): Akase, Fumiaki
 PATENT ASSIGNEE(S): Nikko Materials Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003069173	A2	20030307	JP 2001-255508	20010827
PRIORITY APPLN. INFO.:		JP 2001-255508 20010827		

L11 ANSWER 11 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A polyester fiber is formed from a polyester compn. comprising (i) a lamellar compd. treated with at least one member selected from the group consisting of polyether compds. and silane compds. and (ii) a thermoplastic polyester resin. Also provided is a polyester fiber formed from a polyester compn. comprising (iii) a lamellar compd. treated with a water-sol. or water-miscible phosphorus compd. flame retardant and (iv) a thermoplastic polyester resin. Thus, a compn. comprising 90 parts Belipet EFG 10 and 10 parts Bisol 10EN-treated Somasif ME 100 gave a fiber with fineness 53 dtex, strength 2.4 cN/dtex, elongation 51%, m.p. 253.degree., crystallinity 36%, and good dripping resistance in combustion.

ACCESSION NUMBER: 2002:833037 CAPLUS
 DOCUMENT NUMBER: 137:326515
 TITLE: Polyester fibers containing lamellar compounds with good dripping resistance in combustion
 INVENTOR(S): Maeda, Toshiyuki; Kowaki, Toshihiro
 PATENT ASSIGNEE(S): Kaneka Corporation, Japan
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002086209	A1	20021031	WO 2002-JP3593	20020411
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA		ZM, ZW, AM, A2, BY, KG, KZ, MD, RU, TJ, TM		
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:		JP 2001-117405	A 20010416	
		JP 2001-117819	A 20010417	
REFERENCE COUNT:	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE		
FORMAT				

L11 ANSWER 12 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films possess, on one side of plastic supports, anchorcoat layers, gas-barrier layers comprising M20.nSiO₂ (M = alkali metal), and topcoats of OH-bearing water-sol. polymers, in succession. The gas-barrier layers may contain N compds., water-sol. polymers, and/or org. Si compds. Thus, PE 20 (20-.mu.m-thick polypropylene film) was coated with an anchorcoat of 30:70 M 407 (urethane isocyanate)/D 217 (isocyanurated TDI) mixt., a gas-barrier coating contg. ILS 35/ILS 45 (Li silicate), A 1122 [N-(2-aminoethyl)-3-aminopropyltrimethoxysilane], and R 2105 (silane-modified PVA), and an overcoating contg. PVA 110 [poly(vinyl alc.)] and Kunipia F (montmorillonite) and then subjected to extrusion lamination with Mirason 14P (polyethylene) via TUX TCS (25-.mu.m-thick LDPE film) to give a multilayer film showing O permeability 10.8 initially and 266.9 ml/m²24hPa after 100-time Geibo flex test and interlayer peeling strength 2.00 N/15 mm.

ACCESSION NUMBER: 2002:820152 CAPLUS
 DOCUMENT NUMBER: 137:326289
 TITLE: Multilayer gas-barrier packaging films with improved visibility and capable of metal detector uses
 INVENTOR(S): Hayashi, Kenji; Kitahara, Satoru; Matsuo, Ryukichi
 PATENT ASSIGNEE(S): Toppan Printing Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002316381	A2	20021029	JP 2001-120838	20010419
PRIORITY APPLN. INFO.:		JP 2001-120838 20010419		

L11 ANSWER 13 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The metal substrates are pretreated to improve polymer adhesion by: (a) intergranular etching the metal surface; (b) applying a metal coating on the etched surface in immersion bath; (c) optional treatment of the coated surface with an organosilane from eq. bath; and (d) bonding the coated surface to a dielec. polymer. The intergranular etching bath typically contains an acid, oxidizer, corrosion inhibitor, and halide. The metal coating is selected from Sn, Ag, Bi, Cu, Ni, Pb, Zn, Pt, Pd.

Au, Ru, Co, Ga, and/or Ge. The polymer is typically PTFE, epoxy resin, polyimide, polycyanate ester, and/or butadiene terephthalate resin. The process is suitable for manuf. of laminates by polymer bonding to etched metal foils.

ACCESSION NUMBER: 2002:778239 CAPLUS
 DOCUMENT NUMBER: 137:282788
 TITLE: Metal surface treatment by etching and coating for improved adhesion of polymeric materials
 INVENTOR(S): Whitney, Dickson L., Jr.; Bokissa, George S.; Bishop, Craig V.; Vitale, Americus C.; Kochilla, John R.
 PATENT ASSIGNEE(S): Atotech Deutschland G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 95 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002079542	A2	20021010	WO 2001-IB2901	20010723
WO 2002079542	A3	20030206		
WO 2002079542	C2	20030320		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TO, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6506314	B1	20030114	US 2000-628036	20000727
EP 1310142	A2	20030514	EP 2001-273512	20010723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:		US 2000-628036	A 20000727	
		WO 2001-IB2901	W 20010723	
OTHER SOURCE(S):	MARPAT 137:282788			

L11 ANSWER 15 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title triazole compds. KOCOLOR [wherein X represents such a group that

the compd. represented by the formula XOH has antifungal activity; L represents (C6-10 aryl)CH₂, etc.; further detail on said aryl is given; and R represents P(=O)(OH)₂, etc.] are prep'd. The conversion of one compd. of this invention into a fungicidal metabolite by human liver microsomes was demonstrated. A formulation is given.

ACCESSION NUMBER: 2002:658113 CAPLUS
 DOCUMENT NUMBER: 137:201316
 TITLE: Preparation of water-soluble triazole fungicides
 INVENTOR(S): Mori, Makoto; Kagoshima, Yoshiko; Uchida, Takuya; Konosu, Toshiyuki; Shibayama, Takahiro
 PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
 SOURCE: PCT Int. Appl., 301 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066465	A1	20020829	WO 2002-JP1500	20020220
W: AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PH, PL, RU, SG, SK, US, VN, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2002322176	A2	20021108	JP 2002-44541	20020221
PRIORITY APPLN. INFO.:		JP 2001-46890	A 20010222	
OTHER SOURCE(S):	MARPAT 137:201316			
REFERENCE COUNT:	7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE		
FORMAT				

L11 ANSWER 14 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title water-resistant inks contain humectants, penetrants, colorants, and water-sol. compds. (A; e.g., hydrolyzable silanes) which undergo polycondensation in water-free state, optionally and fluorosilyl monohydric alcs. having b.p. of ≥ 100 degree. and show a 25 degree. surface tension (T_s) of 20-50 mN/m before the A are polycondensed. An ink comprising C.I. acid black 25, glycerol 10, diethylene glycol monobutyl ether 5, a 3-aminopropyltrimethoxysilane hydrolyzate and tetraethoxysilane hydrolyzate blend 5, and water 75% showed T_s 40 mN/m and viscosity 2.1 cP at 25 degree. and gave prints with no smudges after soaking in water.

ACCESSION NUMBER: 2002:716393 CAPLUS
 DOCUMENT NUMBER: 137:249245
 TITLE: Aqueous ink-jet inks, solvents therefor, cartridges and printing apparatus therewith
 INVENTOR(S): Soga, Mamoru; Arase, Hidekazu; Matsuo, Hiroyuki; Tatekawa, Masachiro
 PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 53 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072720	A1	20020919	WO 2002-JP2221	20020308
W: CN, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRIORITY APPLN. INFO.:		JP 2001-64375	A 20010308	
		JP 2001-64470	A 20010308	
		JP 2001-290923	A 20010925	
		JP 2001-290993	A 20010925	
REFERENCE COUNT:	15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE		
FORMAT				

L11 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The present invention provides a water sol. or water dispersible fluorochem. silane represented by the general formula: X-Mf-nHmMar-G Wherein X represents the residue of an initiator or hydrogen; Mf represents units derived from one or more fluorinated monomer; Mh represents units derived from one or more non-fluorinated monomer; Ma represents units having a silyl group represented by SiY₄SY₆, wherein each of Y₄, Y₅ and Y₆ independently represents an alkyl group, an aryl group or a hydrolyzable group; G is a monovalent org. group comprising the residue of a chain transfer agent; n represents a value of 1 to 100; m represents a value of 0 to 100; and r represents a value of 0 to 100; and n+m+r is at least 2; with the proviso that at least one of the following conditions is fulfilled: (a) G contains

a silyl group SiY₁Y₂Y₃, wherein Y₁, Y₂ and Y₃ each independently represents an alkyl group, an aryl group or a hydrolyzable group and at least one of Y₁, Y₂ and Y₃ represents a hydrolyzable water solubilizing group or (b) r is at least 1 and at least one of Y₄, Y₅ and Y₆ represents a hydrolyzable water solubilizing group. A material was prep'd. by telomerization of N-Me perfluorooctyl sulfonamido ethylacrylate, A-160, and A-174, followed by reaction with Carbowax 550.

ACCESSION NUMBER: 2002:553099 CAPLUS
 DOCUMENT NUMBER: 137:109984
 TITLE: Water soluble or water dispersible fluorochemical silanes for rendering substrates oil and water repellent.
 INVENTOR(S): Dama, Rudi
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1225188	A1	20020724	EP 2001-200208	20010119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002057329	A1	20020725	WO 2002-US1675	20020117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:		EP 2001-200208	A 20010119	
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE		
FORMAT				

L11 ANSWER 17 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The reaction product obtained by cohydrolysis and condensation of (A) a fluorinated alkyl-bearing alkoxysilane, (B) an amino-bearing alkoxysilane, and (C) an alkoxyalkyl-bearing polyorganosiloxane is dissolved in water to provide a water-sol. water/oil repellent treating compn. This water/oil repellent treating compn. has improved water solv. and shelf stability, has no detrimental effects on the environment because of the aq. system, and imparts fully durable water repellency and satisfactory softness and hand to textiles. An oil/water repellent was prep'd. from C8F17(CH2)2Si(OCH3)3, (CH3)3Si(OCH3)2O)9Si(OCH3)3, and NH2(CH2)3Si(OCH3)3.

ACCESSION NUMBER: 2002466263 CAPLUS
 DOCUMENT NUMBER: 137:64508
 TITLE: Water-soluble, water/oil repellent treating composition containing siloxanes and method of production
 INVENTOR(S): Miyadel, Shinji; Matsumura, Kazuyuki; Yamamoto, Akira
 PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1217719	A1	20020626	EP 2001-310597	20011219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002194336	A2	20020710	JP 2000-390204	20001222
US 2002132952	A1	20020919	US 2001-20985	20011219
US 6582620	B2	20030624		

PRIORITY APPLN. INFO.: JP 2000-390204 A 20001222
 OTHER SOURCE(S): MARPAT 137:64508
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The invention relates to a method for coating a metallic strip. The strip or optionally, the strip sections produced from said strip in the subsequent process, is/are coated first with at least one anticorrosion layer and then with at least one layer of a paint-like coating contg. polymers and/or with at least one paint coating. After being coated with at least one anticorrosion layer or after being coated with at least one layer of a paint-like coating and/or with at least one paint coating, the strip is divided into strip sections. The coated strip sections are then formed, joined and/or coated with at least one (other) paint-like coating and/or paint coating. At least one of the anticorrosion layers is formed by coating the surface with an aq. dispersion contg. the following in addn. to water: (a) at least one org. film former contg. at least one water-sol. or water-dispersed polymer; (b) a quantity of cations and/or hexa- or tetrafluoro complexes of cations chosen from a group consisting of titanium, zirconium, hafnium, silicon, aluminum and boron; and (c) at least one inorg. compnd. in particile form with an av. particle diam. measured on a scanning electron microscope of 0.005 to 0.2 .mu.m. The clean metallic surface is brought into contact with the aq. compnd. and a film contg. particles is formed on the metallic surface, this film then being dried and optionally also hardened, the dried and optionally, also hardened film having a layer thickness of 0.01 to 10 .mu.m. The speed of coating metal objects with complex profiles is high using this process and need of Cr6+ compds. and acids is reduced. The coated products are useful in manuf. of automobile bodies, aircraft, and spacecraft.

ACCESSION NUMBER: 2002:293775 CAPLUS
 DOCUMENT NUMBER: 136:326956
 TITLE: Method for pretreating and subsequently coating metallic surfaces with a paint-type coating prior to forming and use of substrates coated in this way
 INVENTOR(S): Shimakura, Toshiaki; Bittner, Klaus; Domes, Heribert;
 PATENT ASSIGNEE(S): Wietzoreck, Hardy; Jung, Christian
 SOURCE: Chemteal GmbH, Germany
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031065	A2	20020418	WO 2001-EP11738	20011010
WO 2002031065	A3	20020627		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, C2, DE, DK, DM, D2, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, A2, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002015940	A5	20020422	AU 2002-15940	20011010
EP 1330499	A2	20030730	EP 2001-986707	20011010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: DE 2000-10050532 A 20001011

L11 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 DE 2001-10110830 A 20010306
 DE 2001-10119606 A 20010421
 WO 2001-EP11738 W 20011010

L11 ANSWER 19 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title paints, which are printed on water-wetting or oil-in-water emulsion-coated surfaces by discharging as dot-like paints, contain water-sol. solvents and 0.01-11 silanes
 RmSixX-m (R = alkyl or fluoroalkyl; X = hydrolyzable group; m = 1-2) to ensure the storage stability and smudge prevention. A paint comprising polyvinyl butyral 15, ETOH 74.99, TiO2 10, and MeSi(OEt)3 0.01% showed no pptn. after 10 days at room temp. and was discharged on a water-wet stainless steel plate to form sharp dots.

ACCESSION NUMBER: 2002:169771 CAPLUS
 DOCUMENT NUMBER: 136:218386
 TITLE: Paints and printing method therefor
 INVENTOR(S): Sano, Yoshitaka
 PATENT ASSIGNEE(S): Marktec Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002069336	A2	20020308	JP 2000-262772	20000831

PRIORITY APPLN. INFO.: MARPAT 136:218386
 OTHER SOURCE(S):

L11 ANSWER 20 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Coating materials contain elec. conductive polymers of polythiophene cations and polyanions 100, water-sol. liq. compds. having amide linkages or OH groups 40-6000, self-emulsifying polyester aq. dispersions 20-5000, and optionally epoxyalkoxysilanes 20-300 parts. Thus, a coating material on a polyester film contained Baytron P 35.0, N-methylpyrrolidone 0.2, 1,4-butanediol-ethylene glycol-isophthalic acid-5-sulfosulfonic acid-terephthalic acid copolymer 6.0, an F surfactant 0.7, and H2O 58.1 g.

ACCESSION NUMBER: 2002:147810 CAPLUS
 DOCUMENT NUMBER: 136:185475
 TITLE: Antistatic coating materials
 INVENTOR(S): Chigusa, Yasuo; Kai, Daisuke
 PATENT ASSIGNEE(S): Nagase Chemtex Corp., Japan; Nagase and Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JOKXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2002060736 A2 20020226 JP 2000-253289 20000824
 PRIORITY APPLN. INFO.: JP 2000-253289 20000824

L11 ANSWER 21 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB This invention relates to chem. compns. Comprising .gtoreq.1 urethaneoligomers of .gtoreq.2 repeating units selected from the group consisting of F-contg. urethane oligomers and long-chain hydrocarbon-contg. urethane oligomers. These urethane oligomers comprise the reaction product of (a) .gtoreq.1 polyfunctional isocyanate compds., (b) .gtoreq.1 polyol, (c) .gtoreq.1 monolc., selected from the group consisting of fluorocarbon monolcs., optionally substituted long-chain hydrocarbon monolcs., and mixts., (d) .gtoreq.1 silane, and optionally (e) .gtoreq.1 water-solubilizing compds. comprising .gtoreq.1 water-solubilizing groups and .gtoreq.1 isocyanate-reactive H contg. group. The chem. compns. can be applied as coatings and these coatings can impart stain-release characteristics and resist being worn off due to wear and abrasion. The water-sol. N-3300-C4F9SO2NICH2CH2OH)2-glycolic acid-3-aminopropyltriethoxysilane condense methylidethanolamine salt form w/ a coated as a 3% soln. on slate tile; showing excellent stain resistance to grape juice, transmission fluid, motor oil, wine, coffee, brake fluid, and corn oil.

ACCESSION NUMBER: 2002:142819 CAPLUS
 DOCUMENT NUMBER: 136:201928
 TITLE: Urethane-based stain-release coatings
 INVENTOR(S): Fan, Wayn W.; Martin, Steven J.; Qiu, Zai-Ming; Terrazas, Michael S.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 81 pp.
 CODEN: PIKKD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2002014443 A2 20020221 WO 2001-US22059 20010712
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
 AU 2001073428 A5 20020225 AU 2001-73428 20010712
 PRIORITY APPLN. INFO.: US 2000-225061P P 20000814
 US 2000-226049P P 20000816
 US 2001-804447 A 20010312
 WO 2001-US22059 W 20010712

L11 ANSWER 22 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Hair care water-in-oil emulsion compns. comprise a discontinuous phase which comprises a water-sol. polyalkylene glycol having a no. av. mol. wt. of 200-900 and 4-18 repeating alkylene oxide radicals, wherein each of the repeating alkylene oxide radicals has 2-6 carbon atoms; and a continuous phase which comprises a silicone emulsifier, and a volatile, hydrophobic solvent. Methods for styling hair comprise applying the emulsion compns. to hair. Thus, a formulation contained DC 5225C 10.0, SF 1202 7.0, water 69.03, Luvicrol VA 73W 2.0, Carbowax 600 10.0, Isosteareth-20 0.65, benzyl alc. 0.5, phenoxyethanol 0.3, methylparaben 0.2, disodium EDTA 0.12, and perfume 0.2%.
 ACCESSION NUMBER: 2002:122748 CAPLUS
 DOCUMENT NUMBER: 136:189070
 TITLE: Water-in-oil emulsion compositions comprising polyalkylene glycol hair styling agents
 INVENTOR(S): Carballada, Jose Antonio; Kuhlman, Dennis Eugene
 PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIKKD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2002011684 A2 20020214 WO 2001-US23749 20010727
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
 AU 2001080858 A5 20020218 AU 2001-80858 20010727
 EP 1309306 A2 20030514 EP 2001-959285 20010727
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: US 2000-631314 A 20000803
 WO 2001-US23749 W 20010727

L11 ANSWER 23 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The one and two-dimensional sepn. of proteins extending through the membrane (membrane proteins) is a prerequisite for a complete anal. of the proteome of a functionally intact cell organelle. A substantial drawback of prior art methods for sepn. is that their applicability is limited to peripheral water-sol. proteins. The aim of the novel method is to electrophoretically sepn. membrane proteins in one or two dimensions. To this end, membranes from cell organelles, whose membrane protein stock should be sepd., are placed on planar supports whose surface was modified using suitable methods in such a manner that the membrane proteins maintain their ability to laterally diffuse in the membrane plane after being placed on the support. By subsequently applying elec. fields, the proteins can be electrophoretically displaced in the membrane plane and, as a result, can be sepd. in one or two dimensions according to their different charge characteristics.
 ACCESSION NUMBER: 2001:904281 CAPLUS
 DOCUMENT NUMBER: 136:17699
 TITLE: Method for electrophoretically separating membrane proteins
 INVENTOR(S): Bayerl, Thomas; Sackmann, Erich
 PATENT ASSIGNEE(S): Nimbus Biotechnologie GmbH, Germany
 SOURCE: PCT Int. Appl., 21 pp.
 CODEN: PIKKD2

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2001094421 A2 20011213 WO 2001-EP6234 20010601
 WO 2001094421 A3 20020510
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
 DE 10027705 A1 20011213 DE 2000-10027705 20000603
 AU 2001079639 A5 20011217 AU 2001-79639 20010601
 US 2003159933 A1 20030828 US 2003-297214 20030428
 PRIORITY APPLN. INFO.: DE 2000-10027705 A 20000603
 WO 2001-EP6234 W 20010601

L11 ANSWER 24 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The chromate-free aq. bath suitable for primer coating of steel contains:
 (a) organosilane coupling agent (or hydrolytic condensation product) at 0.01-100 g/L; (b) colloidal water-dispersible SiO₂ at 0.05-100 g/L; and (c) Zr or Ti compd. at 0.01-50 g ions/L and/or (d) thiocarbonyl-contg. compd. at 0.01-100 g/L; and/or (e) water-sol. acrylic resin at 0.1-100 g/L; and (f) optional phosphate ions at 0.01-100 g/L. The aq. bath is suitable for coating of galvanized steel, tinplate, and other metal-precoated steel articles.

The primer coating typically finished by drying at .apprx.60.degree., and baking at 150-250.degree.. The coated steel sheets show increased corrosion resistance, are suitable for press forming and similar metalworking, and can be finished by conventional painting. The typical aq. bath based on 1 L of water is prep'd. in sequence with .gamma.-aminopropyltriethoxysilane 2.5 g, colloidal SiO₂ 1.0 g, zirconyl ammonium carbonate 2.5 g of Zr, thiourea 5.0 g, and (NH₄)₂PO₄ 1.25 g as phosphate.

ACCESSION NUMBER: 2001:654754 CAPLUS
 DOCUMENT NUMBER: 135:214113
 TITLE: Nonchloromate bath for primer coating of steel or metal-precoated steel surface for corrosion resistance
 INVENTOR(S): Shimakura, Toshiaki; Sasaki, Motohiro; Yamase, Katayoshi; Nomura, Hirofumi; Kanai, Hiroshi; Ueda, Kouhei
 PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 14 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1130131	A2	20010905	EP 2001-103593	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001316845	A2	20011116	JP 2000-243049	20000810
US 2001042491	A1	20011122	US 2001-793710	20010227
US 6475300	B2	20021105		
CN 1381532	A	20021127	CN 2001-116679	20010419
JP 2000-52994 A 20000229				
JP 2000-243049 A 20000810				

PRIORITY APPLN. INFO.:

L11 ANSWER 25 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Fourteen water-sol. trivalent metal chlorides from lanthanum to lutetium in the 1st-row of the f-block form complexes with poly(vinyl amines) and increase the glass transition temp. from 57.degree.C to well above 100.degree.C at very low molar concns. of the lanthanide. The large ionic radii of these hard-acid cations allow several hard-base amino side groups in the polymer to occupy sites in the first shell coordination sphere via ion-dipole (i.e., electrostatic) interactions, which leads to micro clustering of the ligands about a single metal center. The enhancement in the glass transition temp. is explained in terms of multi-functional coordination crosslinking. f-Block salts induce larger increases in T_g relative to transition metal-complexes from the d-block, however CoCl₂(H₂O)₆ performs comparably to some of the more efficient lanthanides. Blends of poly(vinyl amine) and trimethoxy silyl-Pr poly(ethylene imine)hydrochloride form complexes with europium(III) and exhibit synergistic single T_g response. Since lanthanides form very stable complexes with chelating (i.e., bidentate) oxygen ligands, it is possible to increase the elastic modulus of com. important copolymers of ethylene and methacrylic acid via Eu³⁺ complexation with the carboxylate anion. This claim is verified by IR spectroscopy. Temp. and pH-sensitive applications for drug delivery and removal of contaminants from wastewater streams should increase the utility of these lanthanide complexes.

ACCESSION NUMBER: 2001:580488 CAPLUS
 DOCUMENT NUMBER: 135:289505
 TITLE: Thermophysical property modifications in functional polymers via lanthanide trichloride hydrates
 AUTHOR(S): Belaire, Laurence A.; Ruzsinszka, Izolda Y.; Das, Pronab K.
 CORPORATE SOURCE: Polymer Physics & Engineering Laboratory Department of Chemical Engineering, Colorado State University, Fort Collins, CO, 80523, USA
 SOURCE: Polymer Engineering and Science (2001), 41(7), 1196-1205
 CODEN: PIERSA; ISSN: 0032-3888
 PUBLISHER: Society of Plastics Engineers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT

L11 ANSWER 26 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Disclosed is a base film that has excellent electromagnetic conversion property over the entire length from a roll core portion to a surface portion of the film product and that is suitable for the prodn. of digital videotapes with reduced dropouts. A polyester film for a magnetic recording medium includes at least a polyester layer A and a polyester layer B laminated. A center-line surface av. roughness (SRA value) of a layer A-side surface of the film is 2 nm to 4 nm, and a 10-point av. surface roughness (SRT value) of the layer A-side surface is 10 nm to 40 nm. The layer B contains a fine particle .alpha. whose av. particle size is .gtoreq.50 nm and <250 nm, and a fine particle .beta. whose av. particle size is .gtoreq.250 nm and <500 nm. The content of the fine particle .alpha. in the layer B is 0.1% to 1.0%. The content of the fine particle .beta. in the layer B is 0.01% to 0.10%. A magnetic recording tape is formed by providing a ferromagnetic metal thin film on a layer A-side surface of the polyester film.

ACCESSION NUMBER: 2001:472091 CAPLUS
 DOCUMENT NUMBER: 135:54921
 TITLE: Polyester film for magnetic recording medium, and magnetic recording tape
 INVENTOR(S): Ono, Masaki; Katauya, Okamoto; Tsuzuki, Toshihiro; Morimoto, Tsutomu
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Eur. Pat. Appl., 18 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1111594	A1	20010627	EP 2000-127798	20001219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001243616	A2	20010907	JP 2000-377517	20001212
US 6468627	B2	20021022	US 2000-739012	20001219
US 200106743	A1	20010705		
CN 1311507	A	20010905	CN 2000-136457	20001225
JP 1999-366403 A 19991224				

PRIORITY APPLN. INFO.: REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L11 ANSWER 27 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A coating for fibrous substrate materials used in high temp. filtration applications is described. The coating is formed by applying a compn. comprising a water-sol. metal alkoxide, organosilane and/or metal oxide precursor, wetting and chelating agents, and optionally a coupling agent in aq. soln. on the surface of the

glass fiber substrate before curing the coated substrate at 700.degree. F for up to 4 h. The cured coating provides protection of the fibrous surface at high temp. by preventing self-abrasion, while increasing its strength, flexibility and use life.

ACCESSION NUMBER: 2001:167916 CAPLUS
 DOCUMENT NUMBER: 134:197002
 TITLE: Abrasion-resistant water-soluble sol-gel coatings for glass fiber substrates
 INVENTOR(S): Kalinowski, Marie R.; Cofer, Cameron G.
 PATENT ASSIGNEE(S): Owens Corning, USA
 SOURCE: PCT Int. Appl., 22 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016044	A1	20010308	WO 2000-US24224	20000831
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UR, UG, US, UZ, VN, YU, ZA, ZW, AM, A2, BY, KG, KZ, MD, RU, TJ, TH, RW, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1216211	A1	20020626	EP 2000-961522	20000831
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL				

PRIORITY APPLN. INFO.: US 1999-388744 A 19990902
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

111 ANSWER 28 of 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The film showing high water vapor impermeability and temp-independent O
 impermeability, is obtained by forming (A) a gas-barrier polymer layer
 and (B) a water-dispersible layered silicate salt layer on at least one side
 of a thermoplastic resin substrate. The gas-barrier layer consists of
 (1) a mixt. of water-sol. polymers and partially
 hydrolyzed polycondensates of metal alkoxides and/or Si alkoxides and/or
 (2) a reaction product of the water-sol. polymers and
 the polycondensates. Thus, a surface-pretreated polypropylene film was
 coated with an eq. mixt. contg. tetraethoxysilane, γ -gamma-
 glycidoxypolytrisiloxane, and Sarnol 20L (EVOH), dried,
 then coated with dispersion contg. Kunipia F
 (montmorillonite), and dried to give a film showing water vapor
 permeability 1.7 g/m²-day and O permeability 0.8 cc/m²-day-atm.
 ACCESSION NUMBER: 200138368 CAPLUS
 DOCUMENT NUMBER: 134:87324
 TITLE: Gas-barrier multilayer film for packaging
 INVENTOR(S): Umekawa, Hideki; Inui, Yoji; Sugita, Yuzo
 PATENT ASSIGNEE(S): Tokuyama Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho; 9 pp.
 CODEN: JXKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200100974	A2	20011016	JP 2000-120950	20000421
PRIORITY APPLN. INFO.:			JP 1999-121240	A 19990428

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001009974	A2	20010116	JP 2000-120950	20000421
PRIORITY APPLN. INFO.:			JP 1999-121240	A 19990428

L11 ANSWER 29 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN
 AB A compn. for interacting with a ligand, which compn. comprises a non-covalent assocn. of a plurality of distinct conjugates, each conjugate comprising a head group and a tail group, wherein the tail groups of the conjugates form a hydrophobic aggregation and the conjugates are movable within the assocn. so that, in the presence of a ligand, at least two of the head groups are appropriately positioned to form an epitope capable of interacting with the ligand more strongly than each of head groups individually. The invention aims to overcome the problems involved in the development of protein receptor-specific therapeutic conjugates that includes evoking immune response or attacking by endopeptidases. The conjugates comprise a head group of amino acid, peptide, monosaccharide, polysaccharide, nucleotide, polynucleotide, sterol, water-sol. vitamin, porphyrin, metal ion chelate, water-sol. drug, hormone, enzyme substrate; a spacer of hydroxy acid, amino acid, sugar or polyethylene glycol; and a tail group of branched-chain fatty acid, alc., aldehyde, prostaglandin, leukotriene, glyceride, sphingosine, ceramide, silicon or deriv.

ACCESSION NUMBER: 2001:12729 CAPLUS
 DOCUMENT NUMBER: 134:91090
 TITLE: Epitopes formed by non-covalent association of conjugates
 INVENTOR(S): New, Roger; Toth, Istvan
 PATENT ASSIGNEE(S): Provalis UK Limited, UK
 SOURCE: PCT Int. Appl., 39 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001140	A1	20010104	WO 2000-GB2465	20000627
W: AE, AG, AL, AM, AT, AU, AZ, CU, CZ, DE, DK, DM, DZ, EE, ID, IL, IN, IS, JP, KE, KG, LV, MA, MD, MG, MK, MN, SE, SG, SI, SK, SL, TJ, TM, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	BA, BB, BG, BR, BY, ES, FI, GB, GD, GE, GH, GM, HR, HU, KR, KZ, LC, LK, LR, LS, LT, LU, MX, NO, NZ, PL, PT, RO, RU, SD, UA, US, UZ, VN, YU, YU			
RW: GH, GM, KE, LS, MW, SD, DE, DK, ES, FI, FR, GB, GR, CF, CG, CI, CM, GA, GN, GW, MR, MR, NE, SN, TD, TG	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, SE, BF, BJ,			
BR 2000012002	A	20020312	BR 2000-12002	20000627
EP 1190255	A1	20020327	EP 2000-942216	20000627
R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO	IT, LI, LU, NL, SE, MC, PT,			
JP 2003503424	T2	20030128	JP 2001-507094	20000627
PRIORITY APPN. INFO.:			GB 1999-15074	A 19990628
			WO 2000-GB2465	W 20000627
REFERENCE COUNT:	3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE		
FORMAT				

ANSWER 30 of 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB Oligonucleotides and other biomolecules are immobilized in high density on solid substrates through covalent forces using either a permanent thioether bond, or a chemoselectively reversible disulfide bond to a surface thiol. Substrates which have hydroxyl groups on their surfaces can be first silanized with a trichlorosilylcontaining 2-20 carbon atoms in its hydrocarbon backbone, terminating in a protected thiol group. The oligonucleotides or other biomolecules are first connected to a tether consisting of a hydrocarbon or polyether chain of 2-20 units in length which terminates in a thiol group. This thiol may be further modified with a halobenzylic-bifunctional water soluble reagent which allows the conjugate to be immobilized onto the surface thiol group by a permanent thioether bond. Alternatively, the oligonucleotide-tether-thiol group can be converted to a pyridinedisulfide functionality which attaches to the surface thiol by a chemoselectively reversible disulfide bond. The permanently bound oligonucleotides are immobilized in high density compared to other types of thiol functionalized silane surface and to the avidin-biotin method. Thiol oligonucleotide was reacted with 2,5-bis(bromomethyl)benzenesulfonate, sodium salt (BMS). Silicon substrates were silanized with 30% 1-(thiofluorosuccinate)-11-(trichlorosilyl)undecane (TTU)/70% octyltrichlorosilane. The TTU surfaces were deprotected with hydroxylamine and then reacted with BMS-thiol oligonucleotide. The TTU surfaces immobilized 55500 nucleic acid compared to the avidin-biotin method.

ACCESSION NUMBER: 2000:875705 CAPLUS
 DOCUMENT NUMBER: 134:39177
 TITLE: High surface density covalent immobilization of oligonucleotide monolayers or biomolecules for biosensors
 INVENTOR(S): McGovern, Mark; Thompson, Michael
 PATENT ASSIGNEE(S): Can.
 SOURCE: U.S., 21 pp., Cont.-in-part of U.S. Ser. No. 951,448.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6139695	A	20001212	US 1999-301287	19990428
US 6169194	B1	20010102	US 1997-951448	19971016
PRIORITY APPLN. INFO.:			US 1997-951448	A2 19971016
REFERENCE COUNT:		5	THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	

111 ANSWER 31 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB This present invention relates to a cosmetic makeup compn. comprising (1) cohesive titania in anatase cryst. form having a primary particle diam. 0.001-0.15 .mu.m and a secondary particle diam. 0.6-2.0 .mu.m and (2) gtoreq. 1 powders selected from the group consisting of silk, chitin, chitosan, and dyed silk. The titania particles are coated with metal oxides or water-sol. polymers to provide a transparent natural color upon application.
ACCESSION NUMBER: 2000:833242 CAPLUS
DOCUMENT NUMBER: 134:21290
TITLE: Cosmetic makeup comprising titania and organic compound powders
INVENTOR(S): Kuroda, Akihiro
PATENT ASSIGNEE(S): Kanebo, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000327531	A2	20001128	JP 1999-142970	19990524

PRIORITY APPLN. INFO.: JP 1999-142970 19990524

FORMAT

L11 ANSWER 32 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The device is manufd. by the process involving forming an elec. insulator film having sp. dielec. coeff. >10req.2.5; which is preferably made of a solvent-sol. resin and a partial hydrolyzate of an alkoxysilane, and polishing the layer by using a polisher, preferably an aq. slurry of Ce oxide particles. Global planarization is possible on the intermediate elec. insulator film by the process and ultralarge scale integrated circuits can be obtained.
 ACCESSION NUMBER: 2000:723629 CAPLUS
 DOCUMENT NUMBER: 133:289917
 TITLE: Manufacture of semiconductor device involving chemical mechanical polishing for planarization
 INVENTOR(S): Harita, Takanori; Kurata, Yasushi; Morishima, Hiroyuki; Honda, Yoshihiko; Yokozuka, Shunsuke; Matsukura, Ikuo
 PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan; Asahi Glass Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000286255	A2	20001013	JP 1999-91610	19990331
PRIORITY APPLN. INFO.:			JP 1999-91610	19990331
OTHER SOURCE(S):		MARPAT	133:289917	

L11 ANSWER 33 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title ink-jet recording sheet comprises a support coated with an ink-receiving layer contg. a synthetic amorphous silica, a cationic resin, and, as a water-sol. binder, a water-sol. graft polymer formed by radically polymerizing vinyl monomers 100-60 and other copolymerizable vinyl monomers 0-40 wt.-% in a water-sol. soln. or dispersion contg. a water-sol. polyester and/or water-sol. polyurethane with av. mol. wt. 4000-30,000 and poly(vinyl alc.) with sapon. degree 75-100% and polymn. degree 500-5000. The sheet shows high ink absorption and provides high quality images with high clearness, water resistance, and storage stability under high moisture conditions.
 ACCESSION NUMBER: 2000:634871 CAPLUS
 DOCUMENT NUMBER: 133:230407
 TITLE: Ink-jet recording sheet using graft copolymer as binder
 INVENTOR(S): Nakaya, Masaru; Nishida, Hayato; Murata, Sakae; Matsu, Shuichiro; Kito, Kiyoshi
 PATENT ASSIGNEE(S): Takamatsu Yushi K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000247020	A2	20000912	JP 1999-56363	19990304
PRIORITY APPLN. INFO.:			JP 1999-56363	19990304

L11 ANSWER 34 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Steel is subjected to a cathodic or anodic treatment in aq. solns. at pH 2-11 contg. ions such as Al, Cr, Mo, etc., coated with sols of hydrated oxides and optionally metals, coated with inorg. binders, and optionally coated with resins by a cathodic or anionic treatment in aq. solns. Thus, steel plated with Zn-2% Co was subjected to a cathodic treatment in 0.5% aq. ammonium vanadate at pH 7.5 and coated with 5% colloidal silica.
 ACCESSION NUMBER: 2000:632112 CAPLUS
 DOCUMENT NUMBER: 133:239456
 TITLE: Precoated steel plates and production methods therefor
 INVENTOR(S): Kanda, Katsumi; Fujimoto, Junichi
 PATENT ASSIGNEE(S): Toyo Kohan Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000248398	A2	20000912	JP 1999-51787	19990226
PRIORITY APPLN. INFO.:			JP 1999-51787	19990226

L11 ANSWER 35 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The present invention relates to a method for producing kraft cellulose that involves prep. a highly-selective polysulfide alkali liquor by oxidizing a white alkali liquor in the presence of a new heterogeneous catalyst A, B or C. The catalyst A consists of transition metal oxides, activated carbon, and a polymeric binder. The catalyst B consists of unsupported or supported Raney Ni. The catalyst C consists of highly porous hydrophobic carbon. The wood is then cooked in the alkali liquor thus obtained, and the cellulose is sepd., rinsed and submitted to a delignification process using a polysulfide alkali liquor until a Kappa no. of 3 to 8 is reached. The method further involves a chlorine-free bleaching process, regenerating the alkali liquor and steam-stripping the volatile sulfide compds. TRS (hydrogen sulfide, Me mercaptan, di-Me sulfide, di-Me disulfide) and the .alpha.-pinene before oxidizing them in condensates, gases and gaseous effluents in the presence of a heterogeneous catalyst (D, C) until water-sol., non-toxic and non-volatile sulfates (Na₂SO₄), thiosulfates (Na₂S₂O₃), and sulfonates are obtained. The catalyst D consists, like the catalyst A, of transition metal oxides, activated carbon, and a polymeric binder. The method further involves supplying the purified condensates towards the caustic soda or cellulose rinsing. This method increases the yield of quality cellulose by 3 to 10 %, reduces the generation of volatile sulfide compds. and .alpha.-pinene by 60 to 80 % during the cooking process, reduces more than ten times the energy consumption for eliminating the TRS and the .alpha.-pinene without discharging secondary waste such as SO₂, NO₂ and CO₂ into the atm., and also reduces the wood, water and fuel consumption.
 ACCESSION NUMBER: 2000:608973 CAPLUS
 DOCUMENT NUMBER: 133:209515
 TITLE: Environmentally friendly production of bleached kraft pulp
 INVENTOR(S): Gorokhov, Aleksandr; Yeremeyeva, Irina
 PATENT ASSIGNEE(S): Can.
 SOURCE: PCT Int. Appl., 29 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050689	A1	20000831	WO 1999-1B388	19990222
W: BR, CA, NZ, SI, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRIORITY APPLN. INFO.:			WO 1999-1B388	19990222
REFERENCE COUNT:		4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT	

L11 ANSWER 36 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The method comprises coating an ABS plastics substrate with a primer: (1) alkoxysilanes, (2) colloidal SiO₂ and silane coupling agent or Ti coupling agent, (3) colloidal metal oxides and a silane coupling agent or Ti coupling agent, or (4) metal alkoxides, coating a water-sol. polymer (polyvinyl alc.) mask layer, activating with an aq. soln. of SnCl₂, SnSO₄, Sn fluoroboride, or TiCl₂, and electroless coating. The coating has metal luster and good adherence.

ACCESSION NUMBER: 2000:529773 CAPLUS

DOCUMENT NUMBER: 133:138835

TITLE: Method for manufacture of electroless coated plastics articles

INVENTOR(S): Yamamoto, Toshihiko; Kimura, Shizuo

PATENT ASSIGNEE(S): Inoac Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000212758	A2	20000802	JP 1999-9303	19990118
			JP 1999-9303	19990118

PRIORITY APPLN. INFO.:

L11 ANSWER 37 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The kit comprises (A) radical-polymerizable monomer, contg. acidic group, (C) photosensitizers and/or peroxides, (D) water-sol. solvents, and (E) H₂O, among which (A) and/or (C) is contained in an applicator such as sponge, cotton, or brush, and the other components are packed in a qtored, a container for mixing just before the use. The kit may addnl. contain (B) water-insol. or poorly water-sol.

radical-polymerizable monomer, contg. no acidic group, (F) amines, (G) silane coupling agents, and (H) 1,3,5-triazine-2,4-dithione derivs. The adhesives give less damage to tooth, dose not necessarily require pretreatment such as etching and primer coating, and are applied to various materials including metals, ceramics, composite resins, etc. A tooth sample was coated with a compn. contg. 4-methacryloyloxyethyl trimellitic anhydride (I), γ -methacryloyloxypropyltrimellitic anhydride, and Me methacrylate, air-blown, coated with a compn. contg. Me methacrylate 30, ethoxyLATED bisphenol A dimethacrylate, di-camphorquinone, acetone, and H₂O, further coated with I by a sponge applicator, air-blown, and then irradiated. Adhesion of composite resin to the adhesive surface was tested.

ACCESSION NUMBER: 2000:426863 CAPLUS

DOCUMENT NUMBER: 133:64072

TITLE: Dental adhesive kit

INVENTOR(S): Yamamoto, Toshihiko; Arata, Shozo; Ueki, Hideyuki; Tanaka, Harumi; Tomikawa, Tamotsu; Otsuki, Haruka

PATENT ASSIGNEE(S): Sun Medical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000178111	A2	20000627	JP 1998-359430	19981217
			JP 1998-359430	19981217

PRIORITY APPLN. INFO.:

L11 ANSWER 38 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title metal sheets, useful for photocopiers or chassis of household appliances, are manufd. by immersing metal sheets in aq. solns. contg. colloidal SiO₂, lubricant powders, and silane coupling agents, and water-sol. polyurethanes with pencil hardness H-6H, tensile strength 330-590 g/cm², and elongation 180-450% and drying to form polymer layers. Thus, a steel sheet was plated with a Co-Zn alloy, chromated, and immersed in a soln. contg. polyurethane, SiO₂, PTFE, chromic anhydride, and silane to give a test piece showing good perspiration resistance and high adhesion.

ACCESSION NUMBER: 2000:120718 CAPLUS

DOCUMENT NUMBER: 132:167752

TITLE: Polyurethane-coated metal sheets with good processability and high corrosion and scratch resistance and their manufacture

INVENTOR(S): Yoshikawa, Masanori; Fujimoto, Junichi; Komai, Masao; Nishimura, Takeo

PATENT ASSIGNEE(S): Toyo Kohan Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000052485	A2	20000222	JP 1999-153467	19990601
			JP 1998-167789	19980602

PRIORITY APPLN. INFO.:

L11 ANSWER 39 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Colored polymer gel particles, useful for inks, toners, water-absorbing materials, coloring materials, etc., are manufd. by water-in-oil reverse-phase suspension polyrn. of water-sol. ethylenically unsatd. monomers in a reactor having mixing blades and inner walls with water-repellent surfaces in the presence of crosslinking agents and hydrophilic pigments. Thus, 5.0 g acrylic acid was neutralized with aq. NaOH (neutralization degree 74%), mixed with 0.005 g N,N'-methylenebisacrylamide and 33.33 g CAB-O-JET 300 (aq. soln. contg. 15% hydrophilic carbon black), suspension-polyrn. in a glass flask having stainless steel mixing blades in the presence of ammonium persulfate, N,N,N',N'-tetramethylethylenediamine, and cyclohexane, and neutralized with aq. NaOH to give a colored polymer gel particles (av. size 500 μ m) showing water absorption .apprx.700 g/g.

ACCESSION NUMBER: 2000:105209 CAPLUS

DOCUMENT NUMBER: 132:137850

TITLE: Colored polymer gel particles and their manufacture by suspension polymerization

INVENTOR(S): Komura, Akimasa; Akashi, Ryojiro; Uematsu, Takashi

PATENT ASSIGNEE(S): Fuji Kerex Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000044611	A2	20000215	JP 1998-211413	19980727
			JP 1998-211413	19980727

PRIORITY APPLN. INFO.:

L11 ANSWER 40 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films are made of polyesters contg. Ge (from polymn. catalysts) 15-45 ppm and P 15-45 ppm and have fine protrusions with height 10-50 nm 3.0 times, 106-9.0 times, 107/mm² on one side whereupon ferromagnetic metal thin film layers are formed for making magnetic recording tapes. The tapes are esp. suitable for digital video cassette (DVC) tapes and data storage tapes. Thus, poly(ethylene terephthalate) (PET) prep'd in the presence of Ge and with Ge and P contents 30 ppm, resp., was employed. PET free from inert particles and PET contg. 0.2% Al silicate were coextruded at film thickness ratio 5:1, cast, sheeted, drawn in longitudinal direction, coated on the Al silicate-contg. side with an aq. soln. contg. Me cellulose, water-sol. polyester, aminochitosane, and ultrafine SiO₂, drawn in transverse direction, and processed to give a base film. On the coating, Co oxide thin film was formed by vapor deposition, diamond-like carbon film was formed by sputtering, and a F-contg. fatty-ester-type lubricant was topcoated. A back coating was formed, then the tape was made into slits to give a DVC video tape, LP mode.

ACCESSION NUMBER: 2000:43199 CAPLUS

DOCUMENT NUMBER: 132:79587

TITLE: Polyester films and magnetic recording tapes thereof
 INVENTOR(S): Ono, Masaki; Okamoto, Katsuya; Hatano, Hiroshi

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JXXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000015695	A2	20000118	JP 1998-191689	19980707

PRIORITY APPLN. INFO.: JP 1998-191689 19980707

L11 ANSWER 41 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The sheet comprises a paper support and a porous transparent layer having 30-500 surface cracks (per 1 mm²) of width 5-30 .mu.m and length 30-200 .mu.m. Paper support is coated with a soln. contg. a water-sol. resin and an inorg. fine-grain particle, for formation of a porous transparent layer; heated for drying to make the water content to 30-50%; coated with a gelling agent; and pressed with a mirror roll for a glazed finish. Smooth-surfaced clear images having water resistance are formed.

ACCESSION NUMBER: 1999:801466 CAPLUS
 DOCUMENT NUMBER: 132:42856
 TITLE: Ink-jet recording sheets and their manufacture
 INVENTOR(S): Fuchisawa, Tetsuo; Kikuchi, Kazuyuki
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11348416	A2	19991221	JP 1998-159735	19980608

PRIORITY APPLN. INFO.: JP 1998-159735 19980608

L11 ANSWER 42 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Method and compns. provide the redn. of the corrosion rate of already corroding steel reinforcements embedded in a hardened concrete structure exposed to aggressive environments as well as the corrosion inhibition of uncorroded steel reinforcements. The corrosion-inhibiting compns. are based on aq. sol. and/or emulsion of: (a) .gtoreq.1 amino- and/or hydroxylalkylamine compd. (e.g., 2-Aminoethanol and

N-Etylecyclohexylamine), which are partially or completely neutralized with .gtoreq.1 inorg. acid and/or derivs. thereof (e.g., KH2PO4) and/or aliph. carboxylic- and/or arom. carboxylic acid (e.g., octanoic acid), (b) .gtoreq.1 surfactant (e.g., N-Lauroylacrosine, sodium salt), and (c) optionally, .gtoreq.1 water-based or water-thinnable repellent agent selected from the group of organosilicones. These compns. are applied by impregnating the reinforced concrete structures. The av. corrosion rates of the reinforcing steel embedded in carbonated concrete were 31-42% based on the corresponding initial value.

ACCESSION NUMBER: 1999:736260 CAPLUS

DOCUMENT NUMBER: 131:340807

TITLE: Method for rehabilitation and corrosion protection of reinforcing steel embedded in hardened concrete structures using surface-applied corrosion-inhibiting compositions

INVENTOR(S): Marazzani, Beat; Mader, Urs; Burge, Theodor A.

PATENT ASSIGNEE(S): Sika AG, Vorm. Kaspar Winkler and Co., Switz.

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 957071	A1	19991117	EP 1998-108660	19980513
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002066889	A1	20020606	US 1999-309290	19990511
US 6402990	B1	20020611		
US 2003034479	A1	20030220	US 2002-135762	20020501

PRIORITY APPLN. INFO.: EP 1998-108660 A 19980513
 US 1999-309290 A3 19990511

OTHER SOURCE(S): MARPAT 131:340807

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 43 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB H₂O-base binders for use in brazing in producing brazed Al products such as radiators for engines and condensers for car air conditioners are obtained by spong. methacrylate polymers having an ac acid value of 20-80 and a glass transition temp. of -30 to 60.degree. with compds. showing cationic property in aq. solns. The methacrylate polymers contain monomer(s) CH₂C(CH₃)COOR (R=Cl-12 alkyl) and monomer(s) of (meth)acrylic acid, maleic acid, and itaconic acid. Brazing compns. are obtained by mixing the binders 1-50, fluorocaluminate fluxes 30-70, Si system brazes 10-40, and water-sol. and volatile alics. having a flash point of .gtoreq.30.degree. 1-50 wt. parts and dilig. with water. The use of binders obtained by adding polyoxazoline or polyoxazoline as a minor ingredient to the methacrylate polymer as the main ingredient enables the brazing compn. to have improved ordinary-temp.

tight adhesion to Al materials and to be prevented from suffering a viscosity increase during application or storage. An Al material is coated with the brazing compn., assembled with other Al material, and brazed by heating.

ACCESSION NUMBER: 1999:672669 CAPLUS

DOCUMENT NUMBER: 131:302258

TITLE: Water-base binder for brazing aluminum materials, brazing compositions, and method of brazing aluminum materials with the compositions

INVENTOR(S): Taninaka, Ichiro; Shibata, Hikaru; Hasegawa, Yoshiharu; Teshima, Shoel

PATENT ASSIGNEE(S): Harima Chemicals, Inc., Japan; Denso Corporation

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9952672	A1	19991021	WO 1998-JP5758	19981218
W: US				
RW: DE, GB				
EP 1029630	A1	20000823	EP 1998-961431	19981218
R: DE, GB				
JP 2000006687	A2	20000107	JP 1999-81494	19990325
JP 2000015393	A2	20000606	JP 1999-253879	19990908
US 6234381	B1	20010522	US 1999-423997	19991117

PRIORITY APPLN. INFO.: JP 1998-102685 A 19980414

JP 1998-261493 A 19980916

WO 1998-JP5758 19981218

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 44 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A review with 54 refs. The recent achievements in syntheses and characterizations of fluoroalkyl end-capped polymers and their interface adsorption properties were introduced. The fluoroalkyl end-groups could be introduced into polymer chains in living or free-radical polymn. by the initiators or terminators contg. fluoroalkyl groups. The living polymn. could make the fluoroalkyl end-capped polyisoprene. Free radical method could produce the fluoroalkyl end-capped polymers of the monomers such as acrylic acid and vinylsilane etc. The fluoroalkyl end-capped polymer such as perfluoroalkyl polyethylene oxide could be prep. by chem. modification of end groups in polymers. Generally, fluoroalkyl-capped polymers are highly surface active. The end-capped polymers were concd. at the interface, i.e., the segregation occurred in the soln. or melt of polymer blends contg. the end-capped and ordinary polymer. For water-sol. fluoroalkyl end-capped polymer, the surface tension of their aq. soln. at crit. micellar concn. is as low as approx. 15 mN/m. In the adsorbed layer at

the air-water interface, the brush-like structures are formed because of the special effect of the fluoroalkyl groups at the chain.

ACCESSION NUMBER: 1999:469768 CAPLUS
 DOCUMENT NUMBER: 131:229340
 TITLE: Syntheses of fluoroalkyl end-capped polymers and their adsorption properties at interface
 AUTHOR(S): Luo, Xiangdong; Li, Ruixia; Wu, Dacheng
 CORPORATE SOURCE: Text. Coll., Sichuan Univ., Chengdu, 610065, Peop. Rep. China
 SOURCE: Gongneng Gaofenzi Xuebao (1999), 12(2), 225-229
 PUBLISHER: CODEN: GGXUEH; ISSN: 1004-9843
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: Chinese

L11 ANSWER 45 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The compds. comprise a carboxylic acid group and/or a β -hydroxyalkyl amide group. The curable compds. contain the compds. or their salts and std. additives selected from waterproofing agents, e.g., oil, mineral oil, silicone oil (reactive or nonreactive), fluorocarbon compds. or stearylamine, hydrophilic surfactants selected from polyethyleneglycol, silanes or titanates, and water-contg. agents selected from Mg(OH)2 and Al(OH)3. More specifically, the compds. may comprise a carbonyl compd., e.g., an anhydride, esp. a cyclic anhydride or activated ester, and an amine, e.g., alkanolamine, esp. secondary β -beta-alkylamine to provide a desired reaction rate. The compds. are manufd. by mixing under reactive conditions a carbonyl compd. as above with an amine as above. Thus, under N, succinic anhydride 300 g was reacted in the presence of water 100 g with diethanolamine 315 g at 70 degree. for 2 h to give a clear, low-viscosity soln. The bonding strength of the binder to glass was 11, vs. 5-6 N/mm2 for a std. phenolic binder.

ACCESSION NUMBER: 1999:464245 CAPLUS
 DOCUMENT NUMBER: 131:105654
 TITLE: Compounds and curable compositions for use as binder for mineral fibers such as glass fibers and rock wool,
 manufacture and use of the water-soluble binders, and mineral fibers spray-coated with the binders
 INVENTOR(S): Stanssens, Dirk Armand Wim; Husemoen, Thor; Hansen, Ezilind; Lennart
 PATENT ASSIGNEE(S): Tidis B.V., Neth.
 SOURCE: PCT Intl. Appl., 46 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 1999-NL29		19990722	WO 1999-NL29	19990115
W: AU, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GR, IS, LT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CN, GA, GN, GW, ME, MR, NE, SN, TD, TG				
NL 1008041	C2	19990713	NL 1998-1008041	19980116
CA 2318273	AA	19990722	CA 1999-2318273	19990115
AU 9920780	A1	19990802	AU 1999-20780	19990115
AU 762182	B2	20030619		
EP 1047645	A1	20001102	EP 1999-901243	19990115
R: AT, BE, DE, DK, ES, FR, GB, IT, NL, SE, PT, SI, LT, LV, FI, RO				
JP 2002059123	T2	20020326	JP 2000-540087	19990115
RU 2209203	C2	20030727	RU 2000-121629	19990115
PRIORITY APPLN. INFO.:			NL 1998-1008041	A 19980116
			WO 1999-NL29	W 19990115

OTHER SOURCE(S): MARPAT 131:105654
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 45 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L11 ANSWER 46 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title compns., with good storage stability, comprise water and/or water-sol. solvents, inorg. colloidal sols, and vinyl resins prep'd. from hydrolyzable silyl-contg. vinyl compd. (oligomers), amineimido vinyl compds., OH-contg. vinyl compds., ionic vinyl compds., and Cl-5 alkyl (meth)acrylates. A compn. comprising 3:1 water/ETOH blend 95, colloidal SiO2 3, and acrylic acid-Bu acrylate-1,1-dimethyl-1-(2-hydroxypropyl)amine methacrylimide-2-hydroxyethyl acrylate-Me methacrylate-gamma-methacryloxypropyltrimethoxysilane copolymer NH3 salt 2 parts showed good storage stability at 50 degree.

for 1 mo and was spread on a various plastic film or glass plate to form transparent thin film with good adhesion and fogging prevention over 4 yr.

ACCESSION NUMBER: 1999:451071 CAPLUS
 DOCUMENT NUMBER: 131:117549
 TITLE: Hydrolyzable silyl-containing vinyl resin-based antifogging aqueous compositions
 INVENTOR(S): Yamagishi, Hiroshi; Makimura, Akira; Iwase, Keiko; Momohira, Satoru
 PATENT ASSIGNEE(S): Mitsubishi Kagaku MKV K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11193375	A2	19990721	JP 1997-320995	19971121
			JP 1997-295336	19971028

L11 ANSWER 47 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Coating compns. contain water-sol. or
 water-dispersible alkoxysilane condensates, .gtoreq.1 dispersion
 of fluoropolymers and acrylic polymers having hydrolyzable silyl
 groups, org. solvents, and water. Thus, a clear contained an aq.
 dispersion (46.6% solids) of chlorotrifluoroethylene-undecylenic
 acid-Veova 9-vinyl butyrate-vinyl pivalate-vinyltrimethoxysilane
 copolymer 34, a thickener 0.1% X-51-714B (a methyltrimethoxysilane
 condensate) 34, a .gamma.-glycidoxypropyltrimethoxysilane
 condensate 10, and Butyl Celastol acetate 2 parts.

ACCESSION NUMBER: 1999:409343 CAPLUS

DOCUMENT NUMBER: 131:60158

TITLE: Inorganic-organic composite aqueous coating

composition

INVENTOR(S): Kito, Koichi; Saegusa, Kazumasa

PATENT ASSIGNEE(S): Dainippon Toyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11172200	A2	19990629	JP 1997-342688	19971212
PRIORITY APPLN. INFO.:			JP 1997-342688	19971212

L11 ANSWER 48 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title dispersion with good storage stability is prep'd. by emulsion
 polym.

of monomer mixts. comprising fluorolefins, ethylenically
 unsatd. monomers contg. hydrolyzable silyl groups, and vinyl carboxylate
 esters or acrylate monomers contg. (substituted) cyclohexane rings in aq.
 media in the presence of water-sol. cyclic azoamidines
 as polymn. initiators. Thus, an aq. mixt. of vinyl versatate (vinyl

ester of C8 branched fatty acid) 82, vinyl versatate (vinyl ester of C10
 branched fatty acid) 132, vinyl pivalate 15, vinyltriethoxysilane
 23.5, 2-acrylamide-2-methylpropanesulfonic acid 5.3,
 chlorotrifluoroethylene 289, and 2,2'-azobis[2-(5-methyl-2-imidazoline-2-
 yl)propane]dihydrochloride (VA 041) 5.0 g was emulsion polym., to give a
 511-solids aq. copolymer dispersion showing no pptn. at 50.degree. for 60
 days. A coating film prep'd. from the dispersion showed 60.degree.-gloss
 75% good stain resistance, and gloss retention 91% after 2 wk in H2O at
 40.degree. .

ACCESSION NUMBER: 1999:394647 CAPLUS

DOCUMENT NUMBER: 131:46124

TITLE: Preparation of aqueous dispersion of fluorine
 -containing copolymers for stain-, weather-, and
 water-resistant coatings

INVENTOR(S): Maruyama, Etsuro; Iida, Akito; Inukai, Hiroshi

PATENT ASSIGNEE(S): Toa Gosei Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11166007	A2	19990622	JP 1997-348739	19971204
PRIORITY APPLN. INFO.:			JP 1997-348739	19971204

L11 ANSWER 49 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films contain antifogging coatings mainly contg. inorg. colloidal
 sols, water and/or water-sol. solvents, and polymers
 of (a) hydrolyzable silyl group-contg. vinyl monomers and/or oligomers,
 (b) vinyl monomers bearing amine-imide groups, (c) OH-contg. vinyl
 monomers, (d) vinyl monomers with ionic groups or groups capable of
 forming ionic groups, and (e) C1-5 alkyl (meth)acrylates on .gtoreq.1
 side of the films. Thus, a
 tetrafluoroethylene-ethylene-perfluorobutylethylene
 copolymer film was coated with a soln. of a compn. of 2 parts (solids)
 15:3:10:7:40:25 .gamma.-methacryloxypropyltrimethoxysilane
 -1,1-dimethyl-1-(2-hydroxypropyl)amine methacrylimide-2-hydroxyethyl
 acrylate-acrylic acid-Me methacrylate-Bu acrylate copolymer aq. emulsion
 and 3 parts colloidal silica in 3:1 mixt. of water and EtOH and dried at
 90.degree. for 1 min to give a coated film. Then, the film was subjected
 to outdoor exposure (as greenhouse) for 4 yr to show retention of the
 initial transparency and antifogging effect.

ACCESSION NUMBER: 1999:345581 CAPLUS

DOCUMENT NUMBER: 131:6669

TITLE: Agricultural fluoropolymer films having

antifogging coatings

INVENTOR(S): Yamagishi, Hiroshi; Makimura, Akira; Iwase, Keiko

PATENT ASSIGNEE(S): Mitsubishi Kagaku MKV K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11146732	A2	19990602	JP 1997-314907	19971117
PRIORITY APPLN. INFO.:			JP 1997-314907	19971117

L11 ANSWER 50 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB An ink-jet printing ink compn. comprises a vehicle, a colorant, .gtoreq.1
 core-shell polymeric binders to increase smear-fastness of the compn.,
 and

a magnetic additive, wherein the core-shell polymeric binder has a

formula given by (AmBnCpDqEr)x, where A and B are hydrophobic components in which
 A exhibits a glass transition temp. (Tg) between .apprx.-150.degree. to
 25.degree. and B exhibits Tg > 25.degree., C is a hydrophilic component
 comprising a water-sol. monomer, D is a UV absorber, E

is a moiety having .gtoreq.1 highly polar functional groups, m = 5-95
 wt%, n = 5-95 wt%, p = 0-60 wt%, q = 0-50 wt%, r = 0-30 wt%, m + n + p + q + r
 = 100 wt%, and x = 1-100,000; wherein the polymer has either hydrophobic
 and hydrophilic moieties or has only hydrophobic moieties and is assoc'd.

with the surfactant to form a polymer-surfactant system which is capable
 of forming a film from water, which, upon dehydration, is essentially
 resistant to water, the polymer has a Tg between .apprx.-10.degree. to
 110.degree.; wherein the magnetic additive consists essentially of
 .gtoreq.1 inorg. magnetic compd. contg. .gtoreq.1 iron, cobalt, and

nickel cations, or .gtoreq.1 org. magnetic complex contg. .gtoreq.1 iron,
 cobalt, and nickel cations or .gtoreq.1 org. complex or charge transfer complex
 exhibiting magnetic properties. Thus a core-shell polymer with hexyl

acrylate, Me methacrylate, vinylpyrrolidone and UV stabilizer in the
 ratio of 10, 30, 59, and 1% by wt. was prep'd., showing av. particle size of 250
 nm and tg of 65.degree..

ACCESSION NUMBER: 1999:311268 CAPLUS

DOCUMENT NUMBER: 130:339499

TITLE: Ink-jet ink compositions having magnetic properties

INVENTOR(S): Nguyen, Kha C.; Ganapathiappan, Sivapackia

PATENT ASSIGNEE(S): Hewlett-Packard Company, USA

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9923181	A1	19990514	WO 1998-US23079	19981029
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 5990202	A	19991123	US 1997-998164	19971224
US 6057384	A	20000502	US 1998-120270	19980721
AU 9912916	A1	19990524	AU 1998-12916	19981029
EP 1027391	A1	20000816	EP 1998-956377	19981029
R:	DE, FR, GB, IT			
JP 2001521976	T2	20011113	JP 2000-519046	19981029
PRIORITY APPLN. INFO.:			US 1997-962496	A 19971031
			US 1997-998164	A 19971224

L11 ANSWER 50 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 US 1998-120046 A 19980721
 US 1998-120270 A 19980721
 WO 1998-US23079 W 19981029
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 51 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title compns. are prep'd. by mixing crosslinkable polymers with wt.-av. mol. wt. of 5,000-200,000, pigments, and org. solvents to form enamels, dispersing in aq. media, optionally mixing with catalysts and crosslinkers to form aq. dispersions contg. crosslinked particles with av. diam. of 0.01-3 μ m, and mixing with aq. resins. Prepg. 5 different colored enamels from various pigments, org. solvents, and Bu acrylate-iso-Bu methacrylate-2-hydroxyethyl acrylate-styrene copolymer, sep. dispersing the enamels with an aq. dispersing medium, and sep. mixing with HMDI gave 5 different colored dispersions, which were mixed at a desired ratio with an aq. emulsion of adipic acid dihydrazide and COOH-contg. acrylic polymer, sprayed on a primed slate panel and dried to form a panel with good discoloration prevention after JIS A 6909 test and whitening resistance after 1 wk in water.

ACCESSION NUMBER: 1999-271143 CAPLUS
 DOCUMENT NUMBER: 130-339442
 TITLE: Multicolored coating compositions with whitening resistance and finishing process therewith
 INVENTOR(S): Sawada, Norio; Hirata, Nobuto; Miyata, Naoki
 PATENT ASSIGNEE(S): Kensei Paint Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11116860	A2	19990427	JP 1997-287515	19971021
PRIORITY APPLN. INFO.: JP 1997-287515 19971021				

L11 ANSWER 52 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The compns. are manufd. by adding 1st resin particles and org. solvents or H₂O to emulsions contg. 2nd resin particles, emulsifiers, and water-sol. or -swellable resins. Thus, vinyl butyrate 40.2, cyclohexyl vinyl ether 5, Veova 9 298.8, undecylenic acid 0.73, and chlorotrifluoroethylene 230.3 parts were polymd. in H₂O to give fluoropolymer emulsion, 100 parts (as solids) of which was mixed with 1 part Adekanol UH 420 (polyether thickener) followed by an EtOH paste of 300 parts low-mol.-wt. poly(tetrafluoroethylene) to give an aq. coating. An Al substrate was sprayed with the coating to give a test piece showing initial water contact angle 162.degree., uniform surface appearance, and no change in water repellency after a 2000-h weathering test.

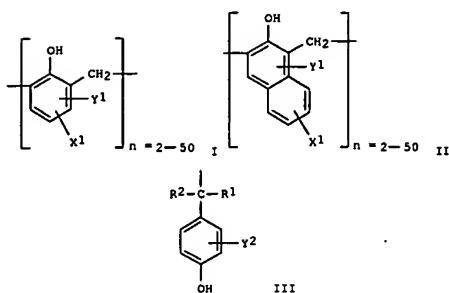
ACCESSION NUMBER: 1999-267540 CAPLUS
 DOCUMENT NUMBER: 130-339480
 TITLE: Weather- and water-resistant aqueous coating compositions and their manufacture
 INVENTOR(S): Sugimoto, Hiromi; Kobayashi, Satoru; Maeda, Kazuhiko; Tatsumi, Kentaro
 PATENT ASSIGNEE(S): Central Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11116849	A2	19990427	JP 1997-280837	19971014
PRIORITY APPLN. INFO.: JP 1997-280837 19971014				

L11 ANSWER 53 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Graft copolymers are manufd. by grafting CH₂-CR1C02(C₂H₄O)_pR₂ (I; R₁ = H, Me; R₂ = Cl-6 alkyl; p = 1-10) onto copolymers obtained from MeSiO(MeSiO)₁[MeSi(C₃H₆(OC₂H₄)_a(OR_bH)_bO]_m[MeSi(C₂H₄Ph)_bO]_nSiMe₃ (II; R = CH₂MeCH₂, CH₂CH₂Me; I, m, n = pos. integer; a = 1-20; b = 0-20) and compds. having reactive double bond and groups reactive with OH of II. The graft copolymers are useful for antifouling coatings slightly hydrolyzed in seawater to form fresh surfaces. Thus, Me methacrylate 50, Bu acrylate 10, and FA 400M [I (R₁ = R₂ = Me, p = 9)] 30 parts were grafted onto 10 parts copolymer [prepd. from 300 parts # 264-36 (polyalkylene ether silicone copolymer) and 0.42 part maleic anhydride]. A glass plate was coated with a xylene soln. of the graft polymer and soaked into flowing seawater for 6 mo to result in 2.0, 5.2, and 10.1% wt. loss after 1, 3, and 6 mo, resp.

ACCESSION NUMBER: 1999-250320 CAPLUS
 DOCUMENT NUMBER: 130-326403
 TITLE: Acrylic polyoxyalkylene-polysiloxane graft copolymers
 INVENTOR(S): Murakami, Makoto; Mamiya, Tatsuhiko
 PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106450	A2	19990420	JP 1997-267411	19970930
PRIORITY APPLN. INFO.: JP 1997-267411 19970930				



AB A surface treatment compn. for metallic materials comprises: (A) a cationic ingredient comprising bivalent or higher ions of a metal selected among elements including manganese; (B) an acid ingredient comprising at least one member selected among (1) fluorinated acids contg. at least 4 F atoms and an element selected among elements including titanium, (2) phosphoric acid, and (3) acetic acid; (C) a coupling agent having at least one reactive functional group selected among functional groups including amino groups each contg. active hydrogen; and (D) a water-sol. polymer ingredient represented by general formula (I) (X1 = H, OH, Cl-5 alkyl, Cl-10 hydroxyalkyl, C6-12 aryl benzyl, benzyl) or (II) (X2 defined the same as X1), or (III) (R1 or R2 = H, OH, Cl-5 alkyl, Cl-10 hydroxyalkyl); Y1 or Y2 = CH2-N(R3)R4 or CH2-N(R7)(R5)R6 with R1 (i=5, 6, 7) = Cl-5 alkyl, Cl-10 hydroxyalkyl.

ACCESSION NUMBER: 1999:244789 CAPLUS

DOCUMENT NUMBER: 130:298064

TITLE: Surface treatment composition for metallic material and method for treatment

INVENTOR(S): Nagashima, Yasuhiro; Hayashi, Hiroki

PATENT ASSIGNEE(S): Nihon Parkerizing Co., Ltd., Japan

SOURCE: PCT Int. Appl., 33 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918256	A1	19990415	WO 1998-JP4458	19981002
W: CA, CN, KR, US				
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL				

AB The compns. contain F-contg. Si alkoxides which segregate in surface. Coatings formed from the compns., the F-contg. Si alkoxides or their reaction products being segregated in 1.0-30 μ thickness region from the surface, are also claimed. Thus, acrylic acid 9, 2-hydroxyethyl acrylate (I) 10, 2-hydroxyethyl methacrylate (II) 5, styrene (III) 10, 2-ethylhexyl acrylate (IV) 10, Bu acrylate (V) 20, and Me methacrylate (VI) 36 parts were polymed. in Me2CH(OH)Bu cellosolve in the presence of AIBN to give a copolymer, 46.7 parts of which was mixed with another copolymer (prepnd. from I 10, II 5, III 10, IV 10, V 20, VI 40, and

.gamma.-methacryloxypropyltrimethoxysilane 5 parts) 23.3, melamine resin (MX 40) 30, (perfluoroalkylethyl)trialkoxysilane (KBM 7103) 0.01, and dimethylaminocetanol 2.88 parts, and inversion-emulsified with H2O to give a compn. An Al sheet was electrodeposited with the compn. dill. with H2O and then baked to give a test piece showing good resistance to scratching, blocking, H2SO4, HCl, and NaOH.

ACCESSION NUMBER: 1999:238642 CAPLUS

DOCUMENT NUMBER: 130:313252

TITLE: Water-soluble acrylic copolymer-amino resin compositions for electrodeposition coatings with improved resistance to

scratching, chemicals, and blocking

INVENTOR(S): Tokui, Toshiue; Takamagari, Kenji; Yoshimura, Masanobu

PATENT ASSIGNEE(S): Honey Kasei K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11100532	A2	19990413	JP 1997-279330	19970929
PRIORITY APPLN. INFO.: JP 1997-279330 19970929				

PT, SE
JP 11106945 A2 19990420 JP 1997-287763 19971003
EP 949353 A1 19991013 EP 1998-945586 19981002
R: BE, DE, FR, GB, IT
TW 408194 B 20001011 TW 1998-87116444 19981002
US 6180177 B1 20010130 US 1999-319720 19990610
PRIORITY APPLN. INFO.: JP 1997-287763 A 19971003
WO 1998-JP4458 W 19981002

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

AB The sizing agents comprise a water-sol. or dispersible bisphenol A epoxy resin, bisphenol F epoxy resin, bisphenol AD epoxy resin, phenolic novolak epoxy resin, cresol novolak epoxy resin, aliph. epoxy resin, or their hydrogenated or ether-modified product and optionally 1-20% (solids) polyurethanes. Sizing glass fibers with a compn. contg. Epikote A154 ad. dispersion 3 (as solids), Epikote 1001 ad. dispersion 1, .gamma.-aminopropyltrimethoxysilane 0.5, polyurethane ad. dispersion 1, tetraethylenepentamine-stearic acid condensate 0.1, and water 94.4, cutting to 3-mm fiber strands, kneading (30 parts) with 70 parts poly(L-lactic acid) and injection molding gave test pieces with tensile strength 1370 kg/cm² and Izod impact strength 11.2 kg-cm/cm².

ACCESSION NUMBER: 1999:201839 CAPLUS

DOCUMENT NUMBER: 130:268270

TITLE: Sizing agents for glass fibers used as reinforcements for biodegradable resins

INVENTOR(S): Kajita, Akimasa

PATENT ASSIGNEE(S): Nitto Boseki Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11079793	A2	19990323	JP 1997-245986	19970828
PRIORITY APPLN. INFO.: JP 1997-245986 19970828				

L11 ANSWER 57 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title films are obtained by forming coating films from antifogging agent compns. contg. (a) hydrolyzable silyl group-having vinyl copolymers, (b) inorg. colloid sols (solid wt. ratio of (a)/(b) = 0.5-9), and (c) water and/or water-sol. solvents on one or both sides of fluoropolymer films. Thus, a 46.3:0.7:53 (mol) ethylene-perfluorobutylethylene-tetrafluoroethylene copolymer film was treated with corona discharge, coated with a compn. contg. a polymer soln.

(nonvolatile matter 60%; prepnd. from Me methacrylate 120, Bu acrylate 75, 2-hydroxyethyl methacrylate 30, N,N-dimethylaminomethyl methacrylate 30, and γ -methacryloxypropyltrimethoxysilane 45 parts) 2 colloidal silica (av. particle size 40 nm) 3, Epiclon 860 (epoxy compnd.) 0.1, and tetraethylpentamine 0.03 part, and dried to give a coated film with good transparency and long-lasting antifogging property.

ACCESSION NUMBER: 1999:97326 CAPLUS
 DOCUMENT NUMBER: 130:197678
 TITLE: Agricultural fluoropolymer films with good transparency and long-lasting antifogging property
 INVENTOR(S): Yamakishi, Hiroshi; Makimura, Akira; Iwase, Keiko; Momodaiwa, Satoru
 PATENT ASSIGNEE(S): Mitsubishi Kagaku MKV K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11034250	A2	19990209	JP 1997-198279	19970724
PRIORITY APPLN. INFO.: JP 1997-198279 19970724				

L11 ANSWER 58 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The sol-gel reaction of tetramethoxysilane (TMOS) or tetraethoxysilane (TEOS) with a variety of carboxylic acids leads to a solid glass within a few minutes to a few days. The as-prepd. silicate glasses show no photoluminescence (PL) but a simple heat treatment in air between 200 deg C and 500 deg C produces a material that displays white PL between 450-600nm. The external PL quantum yield, measured under 365-nm excitation, ranges from 0.20 to 0.45 and the PL lifetime is \sim 10 ns. The chromophore is proposed to be a silicate-trapped polyacron. species. A second class of luminescent materials was synthesized by the reaction of various carboxylic acids with amino-functional trialkoxysilanes such as 3-aminopropyltriethoxysilane (APTES). The transparent yellow-orange polysiloxane that forms from the reaction of formic acid and APTES is highly luminescent ($\Phi=0.3-0.4$) and is water sol. The chromophore in 3-aminopropylsiloxanes is proposed to be a cyclic silyl imidate species. Model compnd. studies and MO calcns. aimed at obtaining a better understanding of the nature of the chromophore in these materials will be discussed.

ACCESSION NUMBER: 1999:93099 CAPLUS
 TITLE: Metal activator-free silicate phosphors
 AUTHOR(S): Sailor, Michael J.; Green, Will H.; Ansell, Michael A.
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of California, La Jolla, CA, 92093, USA
 SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), PHYS-096. American Chemical Society: Washington, D. C.
 DOCUMENT TYPE: Conference: Meeting Abstract
 LANGUAGE: English
 CODEN: 67GHA6

L11 ANSWER 59 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Fluorescence immunoassay methods (for detn. of hormones, drugs, antigens, antibodies, etc.) are provided which use fluorescent dyes which are free of aggregation and serum binding. Such immunoassay methods are thus particularly useful for the assay of biol. fluids, such as serum, plasma, whole blood and urine. The carboxylic acid groups of a caged dicarboxy silicon phthalocyanine dye (prepn. given) were converted to the imidazolide by reaction with carbonyl diimidazole. The dye was then reacted with goat anti-human IgG. The labeled antibody was used in a sandwich immunoassay for rubella antibody.

ACCESSION NUMBER: 1998:788690 CAPLUS
 DOCUMENT NUMBER: 130:49512
 TITLE: Fluorescence immunoassays using fluorescent dyes free of aggregation and serum binding
 INVENTOR(S): Devlin, Robert F.; Dandliker, Walter B.; Arrhenius, Peter O. G.
 PATENT ASSIGNEE(S): Diatron Corporation, USA
 SOURCE: U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 856,176, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 9
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5846703	A	19981208	US 1993-35633	19930323
US 5403928	A	19950404	US 1991-701449	19910515
ES 2163393	T3	20020201	ES 1991-912121	19910515
WO 9319366	A1	19930930	WO 1993-US2470	19930323

W: CA, FI, JP, NO
 RW: AT, BE, CH, DE, DK, ES, FR, GR, IE, IT, LU, MC, NL, PT, SE
 PRIORITY APPLN. INFO.: US 1990-523601 B2 19900515
 US 1990-524212 B2 19900515
 US 1991-701449 A2 19910515
 US 1991-701465 B2 19910515
 US 1992-856176 B2 19920323
 WO 1993-US2470 A 19930323

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L11 ANSWER 60 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title sheets have 3-dimensional network structures of regenerated pulp-contg. pulp and biodegradable tackifiers and contain composites of water-sol. polymers and M(OR)_n-m, and/or their polymers (M = metal; R = alkyl; P = alkyl, fluoroalkyl, substituent contg. .gtoreq.1 functional group such as epoxy; 0 < m < n) in one side. The sheets are useful for buffer materials for packaging. Thus, regenerated pulp, Na alginate, Na dodecylsulfate, and CaCl₂ were extruded and impregnated with an aq. soln. contg. Si(OEt)₄ and poly(vinyl alc.) to give a cellular sheet showing good oil and water resistance.

ACCESSION NUMBER: 1998:758693 CAPLUS
 DOCUMENT NUMBER: 129:344303
 TITLE: Biodegradable pulp cellular sheets with good oil and water resistance
 INVENTOR(S): Sakairi, Koji; Oohata, Koichi
 PATENT ASSIGNEE(S): Toppan Printing Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10310659	A2	19981124	JP 1997-121259	19970512
PRIORITY APPLN. INFO.: JP 1997-121259 19970512				
OTHER SOURCE(S): MARPAT 129:344303				

L11 ANSWER 61 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title compns. contain acrylic resins, aminoplasts, and fluoro surfactants which are unevenly distributed in the electrodeposits, preferably only existing in a layer 20 μ m thickness from deposit surfaces. An Al panel was electrodeposited with an aq. compn. contg. acrylic acid-Bu acrylate-2-ethylhexyl acrylate-2-hydroxyethyl acrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer, Bu acrylate-2-ethylhexyl acrylate-2-hydroxyethyl acrylate-2-hydroxyethyl methacrylate-3-methacryloxypropyltrimethoxysilane-Me methacrylate-styrene copolymer, MX 40, dimethylaminoethanol, and FC 430 to a 10- μ m thickness and baked at 180.degree. for 30 min to form a panel with blocking and scratch resistance.
 ACCESSION NUMBER: 1998:674904 CAPLUS
 DOCUMENT NUMBER: 130:4922
 TITLE: Water-soluble resin electrodepositing coating compositions and scratch-resistant films therefrom
 INVENTOR(S): Takamagari, Kenji; Yoshimura, Masanobu; Tokui, Saiki
 PATENT ASSIGNEE(S): Honey Kasei K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JOKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10279847	A2	19981020	JP 1997-100829	19970404
JP 3278376	B2	20020430		
PRIORITY APPLN. INFO.:		JP 1997-100829		19970404

L11 ANSWER 62 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The free solvent compn. comprises a water-sol. condensation polymer of 50-99.5:0.5-50:0-49.5 an unsatd. monomer having amino or ammonium salt group, an alkoxysilane having polymerizable unsatd. C-C bond and an ethylenically unsatd. monomer 100, an alkoxysilane having polymerizable unsatd. C-C bond 10-200 and an alkoxysilane having amino, epoxy or alkoxy alkyl group 0-100 parts. This compn. can firmly bond nonsulfur-curable elastomer materials to various adherends such as metals; this was hitherto difficult. A high-grade adhesion and superior heat resistance and oil resistance can be attained. Thus, an adhesive compn. for bonding of silicone, fluorosilicone and butadiene-nitrile copolymer rubber was prep'd. by mixing 50 parts N,N-dimethylacrylamide and 5 parts γ -methacryloxypropyltrimethoxysilane (I) dropwise and adding and heating 22.5 parts I and 0.5 part acetic acid at 50.degree. for 2 h.
 ACCESSION NUMBER: 1998:561329 CAPLUS
 DOCUMENT NUMBER: 129:176653
 TITLE: Aqueous adhesive composition, and bonding process and bonded article making use of the same
 INVENTOR(S): Higuchi, Keiichi; Asai, Mitsuo
 PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 12 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 857771	A2	19980812	EP 1998-101965	19980205
EP 857771	A3	19991027		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 10279914	A2	19981020	JP 1998-36793	19980203
US 6051097	A	20000418	US 1998-18835	19980204
PRIORITY APPLN. INFO.:			JP 1997-36984	19970205

L11 ANSWER 63 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Water-based coating compns. comprise an aq. soln., emulsion, or dispersion of (a) a water-sol. or water-dispersible polymer or oligomer having a.gtreq.1 anionic moiety capable of reacting with an oxazoline or oxazine moiety; (b) a water-sol. or water-dispersible polymer or oligomer having a.gtreq.1 oxazoline or oxazine moiety; and (c) a sol comprising a colloidal dispersion of surface-modified, inorg. microparticles in liq.; a.gtreq.1 of the components (a), (b), and (c) comprising a.gtreq.1 fluorosiliph. moiety. Thus, a coating compn. contained mercaptotripropylmethoxysilane-modified colloidal SiO₂, CX-WS 300 crosslinker, and FX 13 acrylate-2-carboxyethyl acrylate copolymer soln. and its cured film had water contact angle 117.degree..
 ACCESSION NUMBER: 1998:372625 CAPLUS
 DOCUMENT NUMBER: 129:41827
 TITLE: Aqueous fluorocochanical compositions and abrasion-resistant antifriction coatings
 INVENTOR(S): Engle, Lori P.; Hamrock, Steven J.; Moore, George G. I.; Pellerite, Mark J.; Zhu, Dong-wei
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
 SOURCE: U.S., 12 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5760126	A	19980602	US 1996-771786	19961220
WO 9828368	A1	19980702	WO 1997-US23677	19971217
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 946650	A1	19991006	EP 1997-952581	19971217
R: DE, FR, GB, IT				
JP 2001507071	T2	20010529	JP 1998-529027	19971217
PRIORITY APPLN. INFO.:			US 1996-771786	A 19961220
			WO 1997-US23677	W 19971217
REFERENCE COUNT: 26		THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L11 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title silicone dispersions are hardenable by crosslinking and usable particularly as putty, paint or film coating. The aq. silicone dispersions are capable of crosslinking by water elimination into an elastomer with suitable mech. properties and having a high cohesive and adhesive force on supports of different kinds and eliminating the drawbacks of known dispersions, in particular concerning safety/toxicity (VOC content) and facility for use. The dispersion contains hydroxylated condensable constituents, is free from hydrolyzable substituents capable of being transformed into volatile org. compds. and other volatile org. compds., and contains an hydroxylated siloxane (A), a water-sol. adhesion promoter contg. OH groups and hydrophilic anchoring groups (B), and, optionally: a catalyst (C) [tin salts], a surfactant (D), a crosslinking agent (E) (MDT hydroxylated POS resin), fillers (F), a dispersing agent (G), a plasticizer (H), an antifungal agent (I), an antifoaming agent (J), a stabilizer (K) or a base (L). The compns. are typically free of poly(vinyl acetoacetate).
 ACCESSION NUMBER: 1998:210784 CAPLUS
 DOCUMENT NUMBER: 128:245056
 TITLE: Aqueous silicone elastomer dispersion
 INVENTOR(S): Feder, Michel; Jost, Philippe; Letoffe, Michel
 PATENT ASSIGNEE(S): Rhone-Poulenc Chimie, Fr.; Feder, Michel; Jost, Philippe; Letoffe, Michel
 SOURCE: PCT Int. Appl., 44 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9813410	A1	19980402	WO 1997-FR1698	19970926
W: AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KR, KR, LC, LK, LR, LT, LV, MG, MK, MN, MO, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, A2, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2753708	A1	19980327	FR 1996-11971	19960926
FR 2753708	B1	19981231		
AU 9744641	A1	19980417	AU 1997-44641	19970926
AU 738912	B2	20010927		
EP 928307	A1	19990714	EP 1997-943006	19970926
EP 928307	B1	20010509		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2000503710	T2	20000328	JP 1998-515037	19970926
JP 3329827	B2	20020930		
AT 201029	E	20010515	AT 1997-943006	19970926
ES 2156402	T3	20010616	ES 1997-943006	19970926
CA 2266389	C	20020709	CA 1997-2266389	19970926
KR 2000048592	A	20000725	KR 1999-702526	19990324
US 2001031818	A1	20010118	US 2001-844981	20010427
US 6521699	B2	20030218		
PRIORITY APPLN. INFO.:			FR 1996-11971 A 19960926	
			WO 1997-FR1698 W 19970926	
			US 1999-269359 B1 19990628	
REFERENCE COUNT: 4		THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS		

L11 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L11 ANSWER 65 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB The compn. comprises (a) a silane monomer mixt. of (i) C1-12
alkyltris(C1-6 alkoxy)silane and (ii) tetra(C1-6 alkoxy)
silane in wt. ratio of 3:1-1:3; (b) hydrolyzed poly(vinyl alc.);
(c) a lower aliph. alc. solvent; (d) a water-sol. acid
catalyst; (e) a nonionic surfactant leveling agent; and (f)
water in an amt. sufficient to form hydrolyzates of the silane
monomers and to solubilize the polyvinyl alc. and acid. A cured compn.

18 useful as an abrasion-resistant coating on transparent articles and
photochromic articles, such as lenses.

ACCESSION NUMBER: 1998:196241 CAPLUS

DOCUMENT NUMBER: 128:206018

TITLE: Poly siloxane coating compositions with good abrasion
resistance and photochromic articles therefor

INVENTOR(S): Smith, Robert A.

PATENT ASSIGNEE(S): Transition Optical, Inc., USA

SOURCE: U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 166,053,
abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5728758	A	19980317	US 1996-635077	19960419
US 5624757	A	19970429	US 1995-448846	19950524

PRIORITY APPLN. INFO.: US 1993-166053 19931213

OTHER SOURCE(S): MARPAT 128:206018

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 66 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB The title compns., useful for bonding fluoro rubber compns.
(e.g., Daiel G 701 contg. Kyowamag 150, Ca hydroxide, and MT Carbon),
contain water-sol. silane coupling agents
(e.g., KBM 603) and surfactants having high wettability with metals

(e.g.,

Emulgen 109P).

ACCESSION NUMBER: 1998:102744 CAPLUS

DOCUMENT NUMBER: 128:155176

TITLE: Aqueous vulcanizable adhesive compositions for
fluoro rubber bonding

INVENTOR(S): Ooshige, Jinja

PATENT ASSIGNEE(S): Uchiyama Kogyo K. K., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10036797	A2	19980210	JP 1996-213239	19960723
PRIORITY APPLN. INFO.:			JP 1996-213239	19960723

L11 ANSWER 67 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB The detergents useful for washing automobile windows contain water
-sol. hydrolysis condensates of fluorinated alkyl-substituted
alkoxysilanes optionally assoccd. with alkoxy silanes substituted with
F-free monovalent hydrocarbon groups. Thus, heating 50.0 g
C8F17(CH2)2Si(OMe)3 in 170 g BuOH in the presence of AcOH and water under
refluxing for 2 h, adding 19.6 g H2N(CH2)3NH(CH2)3Si(OMe)3, and further
refluxing gave a polymer soln., 2 g of which was mixed with 498 g aq.
soln. of lauryltrimethylammonium chloride 0.08, ethylene glycol 0.1, and
MeOH 25% to give a detergent. The detergent was left at 50.degree. for 1
mo to show no change of appearance and it was dropped on a steel plate to
show very small corrosion on the surface after 2-3 days.

ACCESSION NUMBER: 1997:765438 CAPLUS

DOCUMENT NUMBER: 128:49886

TITLE: Water-repellent detergents containing water-
soluble condensates of fluorinated
alkyl-substituted alkoxy silanes

INVENTOR(S): Matsumura, Kazuyuki; Yamamoto, Akira

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09310094	A2	19971202	JP 1996-150009	19960521
JP 3171109	B2	20010528		
US 6239098	B1	20010529	US 1997-999950	19970520

PRIORITY APPLN. INFO.: JP 1996-150009 A 19960521

L11 ANSWER 68 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title agents are obtained by dissolving, in water, reaction products from (A) fluororoalkyl group-contg. alkoxy silanes Rf(CH2)nXSi(R2c)(OR1)3-c (Rf = CnH_{2n+1} , polyfluoroalkyl group contg. .gtoreq.1 CF3CF2CF2O[CF(CF3)CF2O]mCF(CF3); n = 1-20, m .gtoreq.1; X = CH2, CH2O, NR3, CO2, CONR3, S, SO3, SO2NR3; R3 = H, Cl-8 alkyl; R1 = Cl-4 alkyl; R2 = Cl-4 alkyl; a = 0-3; b = 1-3; c = 0, 1) and/or hydrolyzates, (B) alkyl group-contg. alkoxy silanes R4R5Si(OR6)3-d (R4 = Cl-10 hydrocarbyl; R5 = Cl-4 alkyl; R6 = Cl-4 alkyl; d = 0, 1) and/or hydrolyzates, (C) amino group-contg. alkoxy silanes R7R8NH9Si(R10)3-g (R7, R8 = H, Cl-15 alkyl, aminoalkyl; R9 = Cl-18 divalent hydrocarbon group, R10 = Cl-4 alkyl; R11 = Cl-4 alkyl; e = 0, 1) or hydrolyzate, and epoxy group-contg. alkoxy silanes (QR12)R14FSi(OR13)3-f (Q = epoxy group-contg. aliph. group or alicyclic hydrocarbon group, R12 = divalent hydrocarbon group with or without O; R13 = Cl-4 alkyl group; R14 = Cl-4 alkyl; f = 0, 1) and/or hydrolyzates. C8F17CH2CH2Si(OMe)3 115, Me2Si(OMe)2 2.4, sec-butanol 400, AcOH 12.2, and water 5.4 g were heated under reflux for 2 h, treated dropwise 36.2 g 3-aminopropyltrimethoxysilane, heated under reflux for 1 h, treated dropwise with 47.6 g 3-glycidoxypropyltrimethoxysilane, and the resulting mixt. was heated under reflux 1 h to obtain a light-yellow clear soln. which was dild. to 2% solids content in water to obtain a finish storable at room temp. for >1 mo. The finish can be sprayed on fabrics. ACCESSION NUMBER: 1997-630815 CAPLUS
 DOCUMENT NUMBER: 127:294589
 TITLE: Water-soluble fiber treatment agents and manufacture thereof for water- and oilproofing of polyester, nylon, and cotton fabrics
 INVENTOR(S): Matsumura, Kazuyuki; Asai, Mitsu; Ichinobe, Shoji
 PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 ----- ----- ----- -----
 JP 09249748 A2 19970922 JP 1996-08791 19960318
 JP 3211656 B2 20010925
 US 5883185 A 19990316 US 1997-818937 19970317
 JP 1996-88791 A 19960318
 PRIORITY APPLN. INFO.:

L11 ANSWER 69 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Title films are obtained by applying (A) coating layers [surface roughness parameter (Rt/Ra). .gtoreq.20] mainly contg. water-sol. polymers and inorg. lamellar particles on .gtoreq.1 side of (B) thermoplastic polymer substrates. Thus, 50 parts 5% poly(vinyl alc.) H2O/Me2CHOH (90:10) soln. was mixed with 50 parts 2% Kunipia F eq. soln. to give a coating, which was applied on a 12 .mu.m-thick Lumirror film and dried at 120.degree. for 30 s to give a gas-barrier film showing coating layer thickness 0.5 .mu.m, Rt/Ra = 4.2, good bondability, and gas-barrier property at high humidity and after durability test. ACCESSION NUMBER: 1997-480391 CAPLUS
 DOCUMENT NUMBER: 127:110066
 TITLE: Gas-barrier films with good bondability and gas-barrier property at high humidity and after durability test
 INVENTOR(S): Harada, Hiroshi; Kimura, Masahiro; Abe, Koichi
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
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 JP 09150484 A2 19970610 JP 1996-254326 19960926
 EP 805177 A2 19971105 EP 1997-302132 19970327
 EP 805177 A3 19980715
 EP 805177 B1 20030903
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
 AT 248881 E 20030915 AT 1997-302132 19970327
 PRIORITY APPLN. INFO.: JP 1995-252514 A 19950929
 JP 1996-63710 A 19960405
 JP 1996-165837 A 19960526
 JP 1996-254326 A 19960926
 JP 1996-268431 A 19961009

L11 ANSWER 70 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, .gtoreq.1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polyurethanes, and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), Hydran HW 350 (II), and Kunipia F (montmorillonite) in 90:10:10 a mixt. of H2O and i-PrOH. The coating was applied onto 1 side of a corona-treated Lumirror and dried to give a film contg. I, II, and Kunipia F at wt. ratio 45:5:50 showing O permeability 16.0 mL/m²-day-MPa. The film was adhered on T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 1.19, 0.96, and 0.95 N/cm initially, after processing with Gelbo tester, and 48 h at 40.degree. followed by 96 h at RH 90%, resp. ACCESSION NUMBER: 1997-480388 CAPLUS
 DOCUMENT NUMBER: 127:110061
 TITLE: Gas-barrier films having coatings containing laminar inorganic compounds
 INVENTOR(S): Kimura, Masahiro; Harada, Hiroshi; Abe, Koichi
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
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 JP 09151265 A2 19970610 JP 1995-313169 19951130
 JP 3351208 B2 20021125
 JP 1995-313169 19951130
 PRIORITY APPLN. INFO.:

L11 ANSWER 71 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, .gtoreq.1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polymers.degree., and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), 50:40:10 acrylic acid-Bu acrylate-Me methacrylate copolymer (II), and Kunipia F (montmorillonite) in 90:10 a mixt. of H2O and i-PrOH. The coating was applied onto 1 side of a corona-treated Lumirror and dried to give a film contg. I, II, and Kunipia F at wt. ratio 40:10:50 showing O permeability 14.8 mL/m²-day-MPa. The film was adhered with T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 0.98 N/cm initially and 0.39 N/cm after 30 min in H2O at 95.degree.. ACCESSION NUMBER: 1997-480387 CAPLUS
 DOCUMENT NUMBER: 127:110060
 TITLE: Gas-barrier films having moisture-resistant coatings containing laminar inorganic compounds
 INVENTOR(S): Kimura, Masahiro; Harada, Hiroshi; Abe, Koichi
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
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 JP 09151264 A2 19970610 JP 1995-313168 19951130
 JP 3374625 B2 20030210
 PRIORITY APPLN. INFO.: JP 1995-313168 19951130

L11 ANSWER 72 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, (A) stored 1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polymers showing Tg > 70 degrees., and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), acrylic acid-Et acrylate-Me methacrylate copolymer (II; Tg 40 degrees.), and Kunipia F (montmorillonite) in 90:10 a mixt. of H2O and 1-ProOH. The coating was applied onto 1 side of a corona-treated Luminor and dried to give a film contg. I, II, and Kunipia F at wt. ratio 45:5:50 showing O permeability 14.8 mL/m²-day-MPa initially and 24.6 mL/m²-day-MPa after processing with Gelbo tester. The film was adhered on T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 1.21 N/cm initially and 0.43 N/cm after 30 min in H2O at 95 degrees..

ACCESSION NUMBER: 1997:480386 CAPLUS

DOCUMENT NUMBER: 127:110059

TITLE: Gas-barrier films having good coating adhesion and their preparation methods

INVENTOR(S): Harada, Hiroshi; Kimura, Masahiro; Abe, Koichi

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKKXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09151263	A2	19970610	JP 1995-313170	19951130
JP 3367628	B2	20030114		

PRIORITY APPLN. INFO.: JP 1995-313170 19951130

L11 ANSWER 73 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB An improved process for manufg. viscosifying water-sol. and water-insol. carboxylic acid (co)polymers with tolerance to salt-contg. water, comprises polymg. a carboxylic acid or its salt or ester monomer, and optionally, a polyfunctional crosslinker monomer in a silicone solvent under an inert atm. in the presence of an initiator. Thus, acrylic acid preneutralized by anhyd. potassium carbonate 36.00, allyl methacrylate 0.44 g and lauroyl peroxide 0.144 g were mixed in argon-purged octamethylcyclotetrasiloxane (Dow Corning 244), and polymd. to give a polymer having viscosity (0.5% mucilage, pH 7/1 RPM) 143,000 cps

(ASTM E 2196).

ACCESSION NUMBER: 1997:262715 CAPLUS

DOCUMENT NUMBER: 126:317825

TITLE: Preparation of viscosifying water-soluble and water-insoluble carboxylic acid polymers in silicone oil solvents

INVENTOR(S): Tomlin, Anthony S.; Sejka, Milan F.

PATENT ASSIGNEE(S): ANCOL International Corporation, USA

SOURCE: U.S. 9 pp., Cont.-In-pat of U. S. Ser. No. 327,580, abandoned

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5618877	A	19970408	US 1995-486455	19950607
US 5608005	A	19970304	US 1995-504999	19950720
EP 709406	A1	19960501	EP 1995-307325	19951016
EP 709406	B1	19990506		
R: BE, DE, GB, IT, NL				
JP 08208719	A2	19960813	JP 1995-275535	19951024
US 5773546	A	19980630	US 1996-723866	19960930
US 5830967	A	19981103	US 1997-810268	19970303
US 5837790	A	19981117	US 1997-811126	19970303
US 5830960	A	19981103	US 1997-935346	19970922
US 6107429	A	20000822	US 1997-954020	19971020
US 5955552	A	19990921	US 1998-75578	19980511
US 6248849	B1	20010619	US 1998-102958	19981030
US 6387959	B1	20020514	US 2001-376516	20010201

PRIORITY APPLN. INFO.:

US 1994-327580	B2	19941024
US 1995-486107	B2	19950607
US 1995-486455	A	19950607
US 1997-810268	A2	19970303
US 1997-811126	A3	19970303
US 1997-935346	A1	19970922
US 1998-182958	A3	19981030

L11 ANSWER 74 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The title media has ink receptor layer(s) with M/S ratio 1-1.5 (S = as-printed single dot area; M = dot area after 3 days at 32 degrees. and 85RH). The ink receptor layer contains copolymers of diallylamine and diallyldimethylammonium chloride as major monomers, hydrophilic resins such as poly(vinyl alc.) and crosslinking resins such as water-sol. melamine resin, and F-contg. surfactants and silane surfactants. The supports may have an anchor coating.

ACCESSION NUMBER: 1997:186775 CAPLUS

DOCUMENT NUMBER: 126:192987

TITLE: Ink-jet recording media suitable for high-resolution full-color images with good water and moisture resistance

INVENTOR(S): Kotani, Tooru; Ito, Katsuya; Suzuki, Toshitake

PATENT ASSIGNEE(S): Toyo Boseki, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKKXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09001923	A2	19970107	JP 1995-154478	19950621

PRIORITY APPLN. INFO.: JP 1995-154478 19950621

L11 ANSWER 75 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Water-based coating compns. comprise an aq. soln., emulsion, or dispersion

of (a) a water-sol. or water-dispersible polymer or oligomer having at least one anionic moiety which is capable of reacting with an oxazoline or oxazine moiety, (b) a water-sol. or water-dispersible polymer or oligomer having at least one oxazoline or oxazine moiety, and (c) colloidal silica, at least one of the components (a) and (b) further comprising at least one fluororoliph. moiety.

The compns. are useful for forming hard coatings having low surface

energy and high abrasion resistance.

ACCESSION NUMBER: 1997:172493 CAPLUS

DOCUMENT NUMBER: 126:173137

TITLE: Aqueous fluoropolymer compositions and abrasion-resistant coatings therefrom

INVENTOR(S): Zhu, Dong-Wei

PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700917	A1	19970109	WO 1996-US7661	19960524
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5608003	A	19970304	US 1995-494157	19950623
CA 2225519	RA	19970109	CA 1996-222519	19960524
EP 833869	A1	19980408	EP 1996-920479	19960524
EP 833869	B1	19990929		
R: BE, DE, FR, GB, IT				
JP 11507972	T2	19990713	JP 1996-503449	19960524

PRIORITY APPLN. INFO.: US 1995-494157 A 19950623
 WO 1996-US7661 W 19960524

L11 ANSWER 76 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The present invention is directed to compns. comprising an oligonucleotide linked to a detectably labeled marker component comprising a fluorophore moiety which comprises a substantially planar, multidentate macrocyclic ligand coordinated to a central atom capable of coordinating with two axial ligands and two polyoxyhydrocarbyl moieties which are attached as axial ligands to the central atom. The present invention is also directed to nucleic acid hybridization and amplification methods employing such compns. 2,3-Dicarboxyphthalocyaninato-bis-[3-(1H-imidazol-1-ylcarbonyl)aminopropylidemethylsilylanoato]silicon was prep'd. and reacted with ethylenimine-terminated polyethylene glycol to prep. a fluorophore of the invention. The prep'd. fluorophore was further conjugated to a 30-nucleotide DNA sequence. The hybridization behavior of this probe and its use in 3SR RNA product detection was exand.

ACCESSION NUMBER: 1997:169187 CAPLUS
 DOCUMENT NUMBER: 126:234411
 TITLE: Fluorophore-oligonucleotide conjugates for use in nucleic acid hybridization and amplification
 INVENTOR(S): Dandiker, Walter B.; Devlin, Robert F.
 SOURCE: U.S., 19 pp., Cont.-in-part of U.S. 5,403,928.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 9
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5606045	A	19970225	US 1993-51446	19930421
US 5403928	A	19950404	US 1991-701449	19910515
ES 2163393	T3	20020201	ES 1991-912121	19910515
US 5707813	A	19980113	US 1996-709285	19960906
PRIORITY APPLN. INFO.:			US 1990-523601	B2 19900515
			US 1990-524212	B2 19900515
			US 1991-701449	A2 19910515
			US 1991-701465	B2 19910515
			US 1993-51446	A3 19930421

L11 ANSWER 78 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The compns. are manufd. by copolymer. (A) alpha.,beta.-unsatd. carboxylic acid hydroxy-contg. alkyl ester monomers, (B) alpha.,beta.-unsatd. carboxylic acid alkoxysilane-contg. alkyl ester monomers, and (C) vinyl monomers contg. no functional groups in the presence of (D) water-sol. or water-dispersible acrylic polymers having carboxy and hydroxy groups in side chains, mixing with amino resins and F-contg. surfactants, partially neutralizing with org. amines, and mixed with water to give emulsions. Thus, polym. acrylic acid 9, 2-hydroxyethyl acrylate (I) 10, 2-hydroxyethyl methacrylate (II) 5, styrene 10, 2-ethylhexyl acrylate (III) 10, Bu acrylate (IV) 20, and MMA 36 parts, adding I 5, II 2.5, III 5, styrene 5, IV 10, MMA 20, and .gamma.-methacryloxypropyltrimethoxysilane 2.5 parts, and heating gave an acrylic polymer, 100 parts of which were mixed with a melamine resin (MX 40) 28.1, a surfactant (FC 170C) 0.5, and dimethylaminoethanol 2.1 parts, emulsified, blended with water, and coated on an Al plate to give coatings showing gloss 12%.

ACCESSION NUMBER: 1996:715499 CAPLUS
 DOCUMENT NUMBER: 125:331691
 TITLE: Manufacture of acrylic resin compositions for matte electrodeposition coatings
 INVENTOR(S): Obata, Katuya; Hara, Katsuhige; Yano, Yasuhiro
 PATENT ASSIGNEE(S): Honey Kasei Kk, Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08231902	A2	19960910	JP 1995-61589	19950227
PRIORITY APPLN. INFO.:			JP 1995-61589	19950227

L11 ANSWER 77 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Water-sol. hybrid phthalocyanine derivs., fluorescent latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtreq.1 donor subunit with a desired excitation peak and (2) .gtreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.

ACCESSION NUMBER: 1996:761698 CAPLUS
 DOCUMENT NUMBER: 126:33023
 TITLE: Hybrid phthalocyanine derivatives and their uses
 INVENTOR(S): Buechler, Kenneth F.; Noor, Joseph B.; Tadesse, Lema
 PATENT ASSIGNEE(S): BioSite Diagnostics Incorporated, USA
 SOURCE: PCT Int. Appl., 190 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9629367	A1	19960926	WO 1996-US3833	19960322
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
CA 2215727	AA	19960926	CA 1996-2215727	19960322
AU 9653188	A1	19961008	AU 1996-53188	19960322
EP 820489	A1	19980128	EP 1996-909805	19960322
EP 820489	B1	20010711		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL				
JP 10508897	T2	19980902	JP 1996-528604	19960322
JP 338753	B2	20030324		
AT 203045	E	20010715	AT 1996-909805	19960322
PRIORITY APPLN. INFO.:			US 1995-409825	A 19950323
			WO 1996-US3833	W 19960322

L11 ANSWER 79 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title compns. are prep'd. by mixing 30-60% of a water sol. amino silane and 40-70% of a normally water-immiscible alkenyl-functional silane and hydrolyzing at pH 4-7 and in the absence of org. solvent to form a stable, water-dilutable sq. compn. which is useful in bonding polymers to solid substrates. An adhesive was prep'd. by hydrolysis of a mixt. of aminopropyltriethoxysilane and vinyltriethoxysilane acidified with HOAc.

ACCESSION NUMBER: 1996:311661 CAPLUS
 DOCUMENT NUMBER: 124:345387
 TITLE: Aqueous silane adhesive compositions
 INVENTOR(S): Sexsmith, Frederick H.
 PATENT ASSIGNEE(S): Lord Corp., USA
 SOURCE: PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604339	A1	19960215	WO 1995-US9700	19950727
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2195426	AA	19960215	CA 1995-2195426	19950727
EP 773974	A1	19970521	EP 1995-928235	19950727
R: BE, DE, ES, FR, GB, IE, IT, NL, PT, SE				
JP 10506657	T2	19980630	JP 1995-506693	19950727
JP 3353300	B2	20021203	JP 1996-506693	19950727
US 5907015	A	19990525	US 1997-776966	19970519
PRIORITY APPLN. INFO.:			US 1994-284829	A 19940802
			WO 1995-US9700	W 19950727

L11 ANSWER 80 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title compns. contain water-sol. or water-dispersible reaction products of a perfluoroalkanesulfonamide, a compd. containg epoxide groups, and a compd. containg oxyethylene units and a compd. reactive with epoxide groups and are esp. useful as waterproofing and oilproofing finishes on textiles, ceramics, etc. An adduct of polyethylene glycol and succinic anhydride was reacted with bisphenol A diglycidyl ether and N-methylperfluorooctanesulfonamide, and the product was mixed with water and $\text{C}_6\text{F}_17\text{SO}_2\text{N}(\text{Me})\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{Si}(\text{OCH}_2\text{CH}_2\text{OMe})_3$ to prep.

a dispersion which was stable for >3 mo. The dispersion was applied to cotton fabric and heated at 110.degree. to give a water- and oil-repellent fabric.

ACCESSION NUMBER: 1996:99425 CAPLUS
 DOCUMENT NUMBER: 124:119079
 TITLE: Crosslinkable compositions containing perfluoroalkyl group-containing alkoxysilanes and water
 INVENTOR(S): Kirchmeyer, Stephan; Pohmer, Klaus; Hassel, Tillmann
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen. 11 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4418308	AI	19951130	DE 1994-4418308	19940526
EP 694551	AI	19960131	EP 1995-107322	19950515
EP 694551	BI	20000105		
R: BE, DE, ES, FR, GB, IT, NL ES 2142424 JP 08081632 US 5547711 CA 2149958	T3	20000416	ES 1995-107322	19950515
			JP 1995-142398	19950518
			US 1995-444604	19950519
			CA 1995-2149958	19950523

PRIORITY APPLN. INFO.: DE 1994-4418308 A 19940526

L11 ANSWER 81 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A coating compn. for the prepn. of abrasion resistant coatings consisting essentially of: (a) 5-35 wt.-% of a silane monomer mixt. of (i) $\text{Cl}-\text{C}_1\text{C}_2$ alkyl tri(C1-C6)alkoxysilanes and (ii) tetra(C1-C6)alkoxysilane in wt. ratio of 3:1-1:3; (b) 1-9 wt.-% poly(vinyl sil.); (c) a solvating amt. of lower aliph. sil.; (d) a catalytic amt. of water-sol. acid; (e) a leveling amt. of anionic surfactant; and (f) water in an amt. sufficient to form hydrolyzates of the silane monomers and to solubilize the poly(vinyl sil.) and acid. Transparent articles and photochromic articles, such as lenses, comprising org. polymeric host material, org. photochromic compds., and a cured abrasion-resistant coating are prep'd.

by using the coating compn.

ACCESSION NUMBER: 1995:886131 CAPLUS
 DOCUMENT NUMBER: 123:209927
 TITLE: Coating compositions and articles coated with them
 INVENTOR(S): Smith, Robert A.
 PATENT ASSIGNEE(S): PPG Industries, Inc., USA
 SOURCE: PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9516731	A1	19950622	WO 1994-US13963	19941205
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 5624757	A	19970429	US 1995-448046	19950524
			US 1993-166053	19931213

PRIORITY APPLN. INFO.:

L11 ANSWER 82 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB An aq. glass fiber sizing compn. is provided which provides high strength and wet-out to composites prep'd. using glass fibers having the sizing compn. of the present invention applied thereto. When used to reinforce a thermosetting polymeric material, the glass fibers sized with this compn. provide a composite useful in making pultrusion profiles having high compressive, shear and flexural strengths. The compn. includes a nonionic urethane-modified epoxy thermosetting copolymer; a water-sol., dispersible or emulsifiable epoxy film-forming polymer; and emulsifying agent; and organo-functional silane coupling agent; a fiber lubricant; and water in an amt. sufficient for application of the sizing compn. to at least one glass fiber.

ACCESSION NUMBER: 1995:808205 CAPLUS
 DOCUMENT NUMBER: 123:206826
 TITLE: Glass fiber sizing compositions, sized glass fibers and methods of reinforcing polymeric materials using the same
 INVENTOR(S): Klett, Michael Walter
 PATENT ASSIGNEE(S): PPG Industries, Inc., USA
 SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520549	AI	19950803	WO 1995-US615	19950116
W: CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE CA 2181485 EP 741676	AA	19950803	CA 1995-2181485	19950116
EP 741676	AI	19961113	EP 1995-908059	19950116
EP 741676	BI	19980527		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL JP 09508347 ES 2119391	T2	19970826	JP 1995-520087	19950116
	T3	19981001	ES 1995-908059	19950116
			US 1994-186963	19940127

PRIORITY APPLN. INFO.: US 1994-186963 19940127
 WO 1995-US615 19950116

L11 ANSWER 83 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Storage-stable title emulsions are prep'd. by emulsifying and dispersing $\text{RnSi}(\text{R}_1)_4-n$ IR = $\text{Cl}-21$ (halo)hydrocarbyl; $\text{R}_1 = \text{Cl}-3$ alkoxy, halogen, NH_2 , CO_2H ; $n = 1, 2$ in the presence of polycarboxylate water-sol. polymer emulsifying agents. Thus, 200 g

3,3,4,4,5,5,6,6,7,7,8,8,8-tribdecylfluorooctyltrimethoxysilane and 5 g Carbomer were stirred to give an emulsion, a 1% water-thinned soln. of which was spread on a glass substrate to give a sample specimen, which showed contact angle to water and fluidized paraffin 107 and 105.degree..

ACCESSION NUMBER: 1995:268644 CAPLUS
 DOCUMENT NUMBER: 122:217171
 TITLE: Oil-in-water emulsions of silane water repellents
 INVENTOR(S): Tabata, Takehito; Ukaji, Shizuo
 PATENT ASSIGNEE(S): Nihon Surfactant Kogyo KK, Japan; Nikko Chemicals
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06228541	A2	19940816	JP 1993-40637	19930205
PRIORITY APPLN. INFO.:			JP 1993-40637	19930205
OTHER SOURCE(S): MARPAT 122:217171				

L11 ANSWER 84 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
GI For diagram(s), see printed CA issue.

AB This invention concerns prepn. of water-sol. tetraazaporphins represented by the general formula I (explained in patent), fluorochromes for labeling comprising such tetraazaporphins, reagents comprising the fluorochromes for labeling and a nonionic surfactant, substances derived from organisms (e.g., antigens, antibodies, nucleotides, etc.) that are labeled with the fluorochrome, and reagents comprising any of the labeled substances that can be used for assay of various antigens, drugs, DNA, and

the like, and detn. of the base sequence of DNA. Fluorescence anal. can be done using the labeled substances. As one example, β -globin gene was detected in human DNA by using an oligodeoxyribonucleotide labeled at the 5'-end with a tetraazaporphin of this invention.

ACCESSION NUMBER: 1995:234551 CAPLUS

DOCUMENT NUMBER: 122:50737

TITLE: Water-soluble tetraazaporphins and fluorochrome for labeling.

INVENTOR(S): Tai, Seiji; Katayose, Mitsuo; Watanabe, Hiroo

PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 67 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 597389	A1	19940518	EP 1993-117909	19931104
EP 597389	B1	20021002		
R: DE, GB				
JP 06200177	A2	19940719	JP 1993-210059	19930825
JP 3208942	B2	20010917		
US 5627028	A	19970506	US 1993-145199	19931103
US 5665875	A	19970909	US 1995-460930	19950605
PRIORITY APPLN. INFO.:			JP 1992-299773	A 19921110
			JP 1993-210059	A 19930825
			US 1993-145199	A3 19931103

L11 ANSWER 85 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The title compn. for treatment of concrete comprises (a) alkylalkoxysilane and/or a condensate thereof, (b) a nonionic emulsifier and an anionic emulsifier, (c) a bactericide or fungicide, and (d) H2O, optionally (e) a water-dispersible resin and (f) a pigment. A white stable emulsion (gtoreq. 6 mo at room temp.) contained n-hexyltrichlorosilane 400, polyoxyethylene stearly ether 2, Na laurylsulfate 0.02, 18 aq. NaOH soln, 1, 1,2-benzoisothiazolin-3-one 0.5, and 2-n-octyl-4-isothiazolin-3-one 2 g, dild. with water. Concrete specimen having the above waterproofing agent (penetration into concrete 4.3 mm) showed water contact angle >90 degree.

ACCESSION NUMBER: 1994:658107 CAPLUS

DOCUMENT NUMBER: 121:258107

TITLE: Water-soluble or

Water-dispersible, organic silicon-containing composition having excellent antibacterial and antifungal properties

INVENTOR(S): Suzuki, Takehiro; Zushi, Kenji; Okayama, Akio

PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 594440	A1	19940427	EP 1993-308402	19931021
EP 594440	B1	19970528		
R: DE, FR, GB				
JP 06128055	A2	19940510	JP 1992-309287	19921023
JP 2645204	B2	19970825		
JP 06172677	A2	19940621	JP 1992-350734	19921204
JP 2738248	B2	19980408		
JP 06256072	A2	19940913	JP 1993-38451	19930226
PRIORITY APPLN. INFO.:			JP 1992-309287	19921023
			JP 1992-350734	19921204
			JP 1993-38451	19930226

L11 ANSWER 86 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Novel packing materials are provided for liq. chromatog. and/or solid-phase extrn. columns which will allow direct injection of biol. fluids for sepn. of small analytes from protein-contg. mixts. These packing materials have a hydrophilic exterior layer and a hydrophobic, charged, or otherwise selective portion that forms an underlayer or is embedded in the hydrophilic layer. During a chromatog. process, large water-sol. biopolymers will be in contact with the hydrophilic outer layer and be shielded from interacting with the underlayer or embedded portion and elute unretained. Small analytes, on the other hand, can be fully partitioned throughout the exterior and interior layers and are retained by hydrophobic or electrostatic interactions. Silica- and silica gel-bonded phases were prepnd. [e.g., N,N-bis(2'-methoxyethyl)-1-(trioxyethylundecylamine was prepnd. and bonded to silica gel] and used in the direct analyses of drugs in plasma or serum samples.

ACCESSION NUMBER: 1994:186764 CAPLUS

DOCUMENT NUMBER: 120:186764

TITLE: Shielded stationary phases for liquid chromatography or extrn. of mixtures containing proteins and small analytes

INVENTOR(S): Feibush, Binyamin; Gisch, Daryl J.

PATENT ASSIGNEE(S): S.A.C. Corp., USA

SOURCE: U.S., 19 pp. Cont. of U.S. Ser. No. 557,333, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5277813	A	19940111	US 1992-988610	19921210
PRIORITY APPLN. INFO.:			US 1988-208200	19880617
			US 1990-557333	19900723

L11 ANSWER 87 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Water-sol. tetraazaporphins, fluorochromes from them, biol. substances labeled with the fluorochromes, reagents comprising them, and their use in fluorescence anal. are described. A semiconductor laser having an output wavelength of 670-840 nm is used as a light source. N bis(triethylsilyloxy)silicon tetraphenylthio(naphthalocyanine)octacarboxylate (I) (prepnd. described) was coupled to the 5'-end of ACACACTGTGTCACTAG and used in the detection of the β -globin gene in human DNA. I was also coupled to PABA and morphine. Antimorphine monoclonal antibody had only slightly diminished affinity for the morphine conjugate.

ACCESSION NUMBER: 1994:101292 CAPLUS

DOCUMENT NUMBER: 120:101292

TITLE: Water-soluble tetraazaporphins and fluorochromes for labeling

INVENTOR(S): Tai, Seiji; Katayose, Mitsuo; Watanabe, Hiroo

PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 110 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 502723	A2	19920909	EP 1992-301873	19920304
EP 502723	A3	19930127		
EP 502723	B1	19961009		
R: DE, FR, IT, NL				
JP 05163439	A2	19930629	JP 1992-22192	19920207
JP 2964761	B2	19991018		
US 5438135	A	19950801	US 1992-846169	19920305
PRIORITY APPLN. INFO.:			JP 1991-38349	19910305
			JP 1991-146005	19910618
			JP 1991-159308	19910701
			JP 1991-268016	19911017
OTHER SOURCE(S):			MARPAT 120:101292	

L11 ANSWER 88 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Microbical compns. are coated partially or totally on the surfaces with hydrolyzates of fluoroalkoxysilanes. Water-sol. Ag salts 100, Na2SO3 + NaHSO3 450, and water-sol. salts of Na thiosulfate 300 wt. parts were dissolved in H2O to give Ag complex salt soln., which (at wt. parts as Ag) was mixed with 100 wt. parts dried silica gel followed by drying and pulverizing. The silica gel (100 wt. parts) was dispersed in a mixt. of 100 wt. parts trifluoropropyltrimethoxysilane and EtOH and the mixt. was mixed with H2O and dried to give microbical compn. The compn. (5 wt. parts) was dispersed in 100 wt. parts polymers and molded to show inhibition of *Escherichia coli*, *Staphylococcus aureus*, and *Bacillus subtilis*.

ACCESSION NUMBER: 1994:71559 CAPLUS
 DOCUMENT NUMBER: 120:71559
 TITLE: Microbical compositions coated with fluoroalkoxysilane hydrolyzates
 INVENTOR(S): Tomioka, Toshiichi; Nishino, Atsushi
 PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 3 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05262603	A2	19931012	JP 1992-64576	19920323
JP 3166277	B2	20010514		

PRIORITY APPLN. INFO.: JP 1992-64576 19920323

L11 ANSWER 89 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title weather-resistant electrophoretic coatings comprise (A) CO2H- or OH-contg. fluoropolymers 5-50, (B) water-sol. or dispersible alkoxysilyl-contg. acrylic polymers 5-60 and (C) crosslinkers 20-60% or A 5-50, B 5-55, other acrylic polymers 5-40 and C 20-60%. Thus, a compn. contg. Lumiflon 916 (fluoroethylene-cyclohexyl vinyl ether copolymer) 30, vinyltriethoxysilane-methacrylic acid-2-hydroxyethyl methacrylate-Me methacrylate-Bu acrylate copolymer, Et3N salt 35, and Nikalore MX 40 35 parts gave a smooth film with 60.degree. glass 20% and nonyellowing after 3000 h under weatherometer.

ACCESSION NUMBER: 1993:605569 CAPLUS
 DOCUMENT NUMBER: 119:205569
 TITLE: Alkoxysilyl acrylic polymer-containing fluoropolymer matte coatings
 INVENTOR(S): Nishitani, Yukihiko; Matsumoto, Hideo; Ono, Masatoshi
 PATENT ASSIGNEE(S): Taniguchi, Eiji
 SOURCE: Nippon Paint Co Ltd, Japan; Toray Industries
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05039445	A2	19930219	JP 1991-216377	19910802
JP 2966593	B2	19991025		

PRIORITY APPLN. INFO.: JP 1991-216377 19910802

L11 ANSWER 90 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Mothproofing agents, which are solubilized in H2O, contain (4-ethoxyphenyl)[3-(4-fluoro-3-phenoxyphenyl)propyl](dimethyl)silane (I) as the active ingredient and RO(C2H4O)m(C4H8O)nH (R = H, C1-18 alkyl, C8-12 alkylphenyl; 1, m, n = 0-6). I 20, polyoxethylene polyoxypropylene Bu ether 40, polyoxethylene nonylphenyl ether 36, and C6 dodecylbenzenesulfonate 4 wt.% were mixed to give a soln. A wool textile, treated with the soln. (contg. 0.01 wt.% I based on the textile) repelled larvae of *Tinea pellionella* for 6 mo.

ACCESSION NUMBER: 1992:545350 CAPLUS
 DOCUMENT NUMBER: 117:145350
 TITLE: Mothproofing agents containing a tetraalkylsilane and polyoxalkylenes
 INVENTOR(S): Katauta, Yoshi; Hayashi, Fumi; Fujie, Masako
 PATENT ASSIGNEE(S): Dainippon Jochigiku K. K., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 6 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04089414	A2	19920323	JP 1990-202059	19900730
PRIORITY APPLN. INFO.:			JP 1990-202059	19900730

OTHER SOURCE(S): MARPAT 117:145350

L11 ANSWER 91 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The ceramics are manufd. by dispersing ball-milled Si3N4 with sintering aids (SiO2 and/or Y2O3) in a water sol. plastic binder, e.g. poly(2-ethyl-2-oxazoline) (pH apprxeq. 10), drying, injection molding at 400-500.degree. in Ar, stripping the binder at 700-850.degree. F, and sintering.

ACCESSION NUMBER: 1991:233770 CAPLUS
 DOCUMENT NUMBER: 114:233770
 TITLE: Manufacture of homogeneous and defect-free silicon nitride ceramics by injection molding
 INVENTOR(S): Walter, Robert Joseph; Robinson, Michael Joe
 PATENT ASSIGNEE(S): Rockwell International Corp., USA
 SOURCE: Eur. Pat. Appl., 8 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 419757	A1	19910403	EP 1990-107866	19900425
EP 419757	B1	19940316		
R: DE, FR, GB				
US 5204296	A	19930420	US 1989-412957	19890926
JP 03120004	A2	19910522	JP 1990-250447	19900921
PRIORITY APPLN. INFO.:			US 1989-412957	19890926

L11 ANSWER 92 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The zinciferous surface, esp. a galvanized layer, is chromized at 10-200 mg Cr/m², for corrosion resistance, weldability, and paintability, in a bath contg. Cr₆₊, Cr₃₊, PO₄³⁻, a tertiary alc. or a water-sol. org. compd. wetting agent, and a silane coupling agent.

ACCESSION NUMBER: 1991:47462 CAPLUS
 DOCUMENT NUMBER: 114:47462
 TITLE: Chromizing of zinciferous surfaces
 INVENTOR(S): Yoshitake, Noriaki; Saeki, Kenji; Honda, Takumi
 PATENT ASSIGNEE(S): Henkel K.-Q.A., USA
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXD
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 391442	A1	19901010	EP 1990-106675	19900406
EP 391442	B1	19931006		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02267277	A2	19901101	JP 1989-89415	19890407
JP 07053911	B4	19950607		
ZA 9002660	A	19910130	ZA 1990-2660	19900405
US 5141575	A	19920825	US 1990-505337	19900405
CA 2014010	AA	19901007	CA 1990-2014010	19900406
AT 95575	E	19931015	AT 1990-106675	19900406
ES 2045616	T3	19940116	ES 1990-106675	19900406
BR 9001625	A	19910507	BR 1990-1625	19900408
AU 9053155	A1	19901025	AU 1990-53155	19900411
AU 635011	B2	19930311		

PRIORITY APPLN. INFO.: JP 1989-89415 19890407
 EP 1990-106675 19900406

L11 ANSWER 93 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB To increase corrosion resistance, a Zn alloy-coated steel sheet is conventionally chromated and then coated with an org. layer (on gtoeq.1 side) of a water-sol. resin 100, colloidal silica gel 5-80, a silane coupling agent 1-20, and a water-sol. isocyanate crosslinking agent 5-20 parts. After drying, thickness of the resulting org. layer is 0.1-5 .mu.m. Thus, a Zn-12%Ni alloy-coated steel sheet was degreased, dried at 120.degree., and coated with an org. layer 0.1-.mu.m thick at 180.degree.. The org. coating consisted of a water-sol. urethane resin 100, colloidal silica gel 50, 3-methacryloxypropyltrimethoxysilane (coupling agent) 3, Light Silicone P-290 (water repellent) 10, Millionsilate HS-50 isocyanate (crosslinking agent) 10, and water 200 parts. The coated specimens were exposed to salt spray corrosion testing for 200 cycles (4 h at 35.degree., drying 2 h at 60.degree., and salt spraying 2 h at 50.degree.) to give corrosion depth 0.020 mm, compared to 0.458 mm for continuously galvanized and chromated steel.

ACCESSION NUMBER: 1990:461394 CAPLUS
 DOCUMENT NUMBER: 113:61394
 TITLE: Coating of zinc alloy-coated steel sheets with water-soluble resins
 INVENTOR(S): Nomura, Shingo; Saeki, Hirohiko; Nakamura, Kanji
 PATENT ASSIGNEE(S): Kobe Steel, Ltd., Japan
 SOURCE: Ger. Offen., 19 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3838452	A1	19890608	DE 1988-3838452	19881112
DE 3838452	C2	19920827		
JP 01128830	A2	19890522	JP 1987-286856	19871113
JP 2560050	B2	19961204		
JP 01148544	A2	19890609	JP 1987-307260	19871204
GB 2211762	A1	19890712	GB 1988-26395	19881111
GB 2211762	B2	19911113		

PRIORITY APPLN. INFO.: JP 1987-286856 19871113
 JP 1987-307260 19871204

L11 ANSWER 94 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title compns., which improve adhesion of resins to glass surfaces, which are used as coupling agents for glass fabric reinforcers in printed circuits, etc., comprise (A) water-sol. solvents and (B) compds. prep'd. by treating the reaction products of NH₂-terminated linear poly(alkylene oxide)diamines and XIASIR1mR23-m: (A = Cl-10 org. group; R₁ = hydrolyzable alkoxy or aryloxy residue; R₂ = H, Cl-6 hydrocarbyl; XI = halogen; m = 2, 3) with YX₂ (X₂ halogen; Y = Cl-15 linear or cyclic group having an active H-contg. N moiety). Treating 4,9-dioxadodecane-1,12-diamine with 3-chloropropyltrimethoxysilane in EtOH under reflux for 30 h and then reacting this intermediate with 2-phenyl-4-methyl-5-fluoromethylimidazole at room temp. for 5 h gave a product (I). Then 7628 (glass cloth) was immersed in an aq. I. soln. contg. AcOH, dried at 120.degree., impregnated with a varnish contg. AER 711EK80, dicyandiamide, and PhCH₂NMe₂, and dried to give a prepreg, several of which were laminated with Cu foil, hot-pressed, and etched to give a test piece showing improved solder heat resistance, boiling water resistance, solvent resistance, and elec. properties, compared to that of a control prep'd. using 3-aminopropyltrimethoxysilane instead of I.

ACCESSION NUMBER: 1989:516345 CAPLUS
 DOCUMENT NUMBER: 111:116345
 TITLE: Water-soluble silane compositions
 INVENTOR(S): Tsuchiya, Norio; Sato, Minoru
 PATENT ASSIGNEE(S): Asahi-Schewbel Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01083088	A2	19890328	JP 1987-240250	19870925
JP 2577753	B2	19970205		

PRIORITY APPLN. INFO.: JP 1987-240250 19870925

OTHER SOURCE(S): MARPAT 111:116345

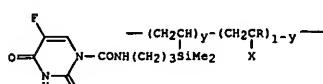
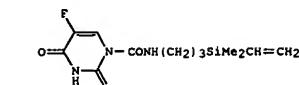
L11 ANSWER 95 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB The title BaSO₄ is manufd. by carrying out the pptn. (copptn.) in the presence of addnl. anions of water-sol. compds., which are capable of pptg. Ba ions to form practically insol. Ba compds. This BaSO₄ is useful as activated, finely dispersed filler in natural or synthetic elastomers, thermoplastics, thermosetting resins, and ceramics. Thus, 325 ml BaCl₂ soln. (d. 1.050 g/cm³) was reacted with 110 ml Na₂SO₄ soln. (d. 1.104 g/cm³) contg. 2.5 g Na lauryl sulfate/L. The pptd. BaSO₄ was isolated, washed with water to a filtrate cond. of 100 .mu.m. S/cm and dried at 110.degree.. The C content of the BaSO₄ was 0.32%. Coatings (100 .mu.m) based on Alitalat AC 451 (fatty acid-modified alkyd resin) and

Luwipal 012 (melamine resin) and contg. 4.4 vol.% BaSO₄ on transparent foils had contrast ratio (described) 9.03, vs. 3.22 without pigment.

ACCESSION NUMBER: 1989:195800 CAPLUS
 DOCUMENT NUMBER: 110:195800
 TITLE: Manufacture and uses of barium sulfate with chemically
 reactive surfaces by precipitation in aqueous medium
 INVENTOR(S): Aderhold, Clemens; Roehrborn, Hans Joachim
 PATENT ASSIGNEE(S): Metallgesellschaft A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 6 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3718277	A1	19881215	DE 1987-3718277	19870530
EP 293622	A1	19881207	EP 1988-107215	19880505
EP 293622	B1	19910717		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 65251	E	19910815	AT 1988-107215	19880505
DK 8802902	A	19881201	DK 1988-2902	19880527
DD 270701	A5	19890809	DD 1988-316146	19880527
US 4894093	A	19900116	US 1988-199982	19880527
CZ 283108	B6	19980114	CZ 1988-3633	19880527
SK 279361	B6	19981007	SK 1988-3633	19880527
CN 88103235	A	19981221	CN 1988-103235	19880530
CN 1015165	B	19911225		
JP 63315516	A2	19881223	JP 1988-132523	19880530
PL 157686	B1	19920630	PL 1988-272760	19880530

PRIORITY APPLN. INFO.: DE 1987-3718277 19870530
 EP 1988-107215 19880505



AB {3-(5-Fluorouracil-1-carbamido)propyl} dimethylvinylsilane(I) and its polymer (II) (R = H or Me; X = water-sol. group or water-sol. residue; y = 0.004-0.5) are useful in treatment of tumors. I was prep'd. by refluxing a mixt. of 3-isocyanatopropylidemethylvinylsilane and 5-fluorouracil in pyridine and benzene. This monomer was then polyd. with acrylamide in THF in the presence of AIBN.

ACCESSION NUMBER: 1988:173534 CAPLUS

DOCUMENT NUMBER: 108:173534

TITLE: (Fluorouracilcarbamido) propylidemethylvinylsilane and its copolymers as neoplasia inhibitors

INVENTOR(S): Oochi, Tatsuro; Yoshizawa, Satoru; Kawashima, Masatoshi

PATENT ASSIGNEE(S): Chisso Corp., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62209112	A2	19870914	JP 1986-53309	19860311
JP 05015717	B4	19930302		
JP 06247941	A2	19940906	JP 1992-128197	19920421
JP 07013120	B4	19950215		

PRIORITY APPN. INFO.: JP 1986-53309 19860311

L11 ANSWER 97 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB The title sheets for recording images by using water-sol. dyes contain SiO₂ surface-treated with a silane coupling agent. The sheets produce clear color images having moisture resistance and lightfastness.

ACCESSION NUMBER: 1988:159044 CAPLUS

DOCUMENT NUMBER: 108:159044

TITLE: Ink-jet recording receptor sheets

INVENTOR(S): Morohoshi, Naoya; Togano, Shigeo

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62178384	A2	19870805	JP 1986-20092	19860203

PRIORITY APPN. INFO.: JP 1986-20092 19860203

AB Strands consist of glass fibers at least partially coated with dried residue of an aq. compn. comprising .gtotreq.1 water-sol. , dispersible, or emulsifiable film-forming bisphenol A polyester with polyester and epoxy functionality, an effective amt. of an organo functional coupling agent selected from acryloxy-contg. and methacryloxy-contg. coupling agents, an effective amt. of a cationic fiber lubricant, .apprx.0.05 .simeq. 0.4 wt.% cationic org. quaternary ammonium salt with alkoxy moieties having an acid no. of .gtotreq.10%, and water .apprx.1 to .simeq.30 wt.% of total solids. The compn. is free of inorg. antistatic agents and has pH .ltotreq.7. Reinforced polymeric matrixes are produced using chopped glass fibers treated with the aq. compn. Thus, glass fibers of preferred compn. (SiO₂ 55.8, CaO 21, Al₂O₃ 14.8, B₂O₃ 5.2, Na₂O 1.4, F 0.5, and MgO 0.3 wt.%; n 1.57-1.557) were treated with a compn. of .gamma.-methacryloxypropyltrimethoxysilane 380, acetic acid 25, water for silane 22,720, Emery 6717 cationic lubricant 151.5, water for lubricant 1895, aq. emulsion of Neoxil 954 22,720, antistat Neoxil AO 5620 284 g, and water

to 50 gal. Strands (H-55 or K-37) were dried at .apprx.220-300 degree. # for 1 h, chopped to .apprx.2.54 cm, and added to an acrylic polyester matrix to give translucent panels. The strands had good wettability in the plastic and excellent wet-through in chopping and the panel had only slight strand matchsticking and excellent clarity and weatherability vs. poor wet-through, slight to moderate matchsticking, moderate clarity and good weatherability with previously claimed treatment

comps. which did not contain the bisphenol A polyester and the org. quaternary ammonium antistat.

ACCESSION NUMBER: 1987:106772 CAPLUS

DOCUMENT NUMBER: 106:106772

TITLE: Chemically treated glass fibers for reinforcing polymeric materials

INVENTOR(S): Sanzero, George Valentine; Hudson, Howard John; Melle,

David Thomas; Das, Balbhadrappa

PATENT ASSIGNEE(S): PPG Industries, Inc., USA

SOURCE: Eur. Pat. Appl., 52 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 206189	A1	19861230	EP 1986-108169	19860614
EP 206189	B1	19901024		
R: BE, CH, DE, FR, GB, IT, LI, NL				
CA 1285833	A1	19910709	CA 1986-511667	19860616
JP 62036048	A2	19870217	JP 1986-149333	19860625
JP 05007337	B4	19930128		
US 4789593	A	19881206	US 1987-39812	19870413
PRIORITY APPN. INFO.:			US 1985-748388	19850625
			US 1985-748389	19850625

AB The permeability of subterranean formations are increased by injection of a mixt. contg. an aq. acid and water-sol. organosilanes or silanols to inhibit formation and movement of particle fines and to reduce the water swelling of clays by retarding acid reactions. A clear and stable acidizing soln. (aq. 1 wt.%) was prep'd. by mixing aq. 15 wt.% HCl with a sufficient amt. of 3-aminopropyltriethoxysilane. The soln. was storage-stable and did not show any significant changes in viscosity for >30 days. A

cylindrical sandstone core sample was subjected to a vacuum of 50 torr for 120 min, satd. with aq. 2 wt.% NaCl, and pressurized at 6900 kPa to allow passage of ligs. through the core sample. Application of such solns. protects a formation against permeability losses from water as well as stimulates a formation which has suffered permeability damage from water.

ACCESSION NUMBER: 1987:105186 CAPLUS

DOCUMENT NUMBER: 106:105186

TITLE: Acidizing method

INVENTOR(S): Watkins, David R.; Kalfayan, Leonard J.; Hewgill, Gregory S.

PATENT ASSIGNEE(S): Union Oil Co. of California, USA

SOURCE: Brit. UK Pat. Appl., 15 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2177145	A1	19870114	GB 1986-15107	19860620
GB 2177145	B2	19881123		
US 4646835	A	19870303	US 1985-750319	19850628
CA 1267276	A1	19900403	CA 1986-512372	19860625
EP 265563	A1	19880504	EP 1986-308480	19861030
EP 265563	B1	19910508		
R: NL				
US 5039434	A	19910813	US 1990-546666	19900628
PRIORITY APPN. INFO.:			US 1985-750319	19850628
			US 1986-934623	19861125
			US 1988-233985	19880815

L11 ANSWER 100 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Galvanized steel sheets are chromated at 50-5000 mg Cr/m² using a chromating soln. (pH 1.5-4) contg. CrO₃ 5-50, F⁻ 0.1-10, SiO₂ 5-100 g/L. gtoreq.1 of 0.1-5% of .gamma.-(2-aminoethyl)aminopropyltrimethoxysilane, .gamma.-(2-aminoethyl)aminopropyltrimethoxysilane, .gamma.-(2-aminoethyl)glycidoxypropyltrimethoxysilane, .beta.-(3,4-epoxycyclohexyl)ethyltrimethoxysilane, or .gamma.-acrylopropyltrimethoxysilane* **, and ***water sol. resin 50-500 g/L. The coated steel sheets have excellent corrosion resistance and coating property. The steel sheets are useful for automobiles and home appliances. Thus, a galvanized steel sheet was chromated at 50 mg Cr/m² using a chromating soln. contg. CrO₃ 5, SiO₂ 20, NaBF₄ 2 g/L, .gamma.-glycidoxypropyltrimethoxysilane 0.1%, and acrylic copolymer 50 g/L. Salt water spraying test (JIS-Z-2371) for 400 h, coating adherence, and welding property were excellent.

ACCESSION NUMBER: 1986:190775 CAPLUS

DOCUMENT NUMBER: 104:190775

TITLE: Chromating of galvanized steel sheets for excellent corrosion resistance and coating adherence

INVENTOR(S): Sakamoto, Yasuhei; Tsugui, Noriji; Yano, Mitsuo;

PATENT ASSIGNEE(S): Kawasaki Steel Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61000584	A2	19860106	JP 1984-121461	19840613
			JP 1984-121461	19840613

PRIORITY APPLN. INFO.:

L11 ANSWER 101 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A self-gelling compn. for topical administration, particularly in the oral cavity, consists of an aq. soln. of tetraethoxysilane [78-10-4], an active agent such as a water-sol. F⁻ (to inhibit caries), or an antibiotic and a gelation agent. The gelation agent is necessary for the in situ gelling of the compn. within a predef. time after the application of the compn. and provides penetration properties of a low-viscosity soln. with sustained release of the active ingredient from the gel. Typically, the gelation agent may comprise a F⁻ ammonium ion or a surfactant alone or in combination. Thus, a self-gelling compn. contg. 0.6M NaF soln. 80, tetraethoxysilane 20, and cetylpyridinium chloride [123-03-5] 1 part gelled in 1 min and 30 s. This compn. is suitable for treating or preventing dental caries.

ACCESSION NUMBER: 1984:39604 CAPLUS

DOCUMENT NUMBER: 100:39604

TITLE: Self-gelling liquid composition for topical application in the oral cavity

INVENTOR(S): Caslavsky, Vera B.; Gron, Poul; Fine, Howard

PATENT ASSIGNEE(S): Forayth Dental Infirmary for Children, USA

SOURCE: U.S., 6 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4411889	A	19831025	US 1982-381530	19820524
US 4454110	A	19840612	US 1983-518951	19830801
US 4563351	A	19860107	US 1984-617977	19840606
PRIORITY APPLN. INFO.:			US 1982-381530	19820524
			US 1983-518951	19830801

L11 ANSWER 102 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Elec. conductive coating materials contain fluoropolymers 5-40, elec. conductive powder 5-40, hydrophilic org. solvents 5-50, surfactants 1-30, water 0-60, compds. which form films by thermal decompn. (silanes, Ti compds., Zr compds., or Sn compds.) 0.15-15, and/or water-sol. polymers which decompose at the sintering temp. of the fluoropolymer 0.005-5%. Thus, a mixt. of powd. graphite 510, elec. conductive carbon black 90, diethylene glycol Bu ether 600, 20% aq. polyethylene glycol octylphenyl monooether [9036-19-5] soln. 1000, 2.5% aq. methylcellulose [9004-67-5] soln. 48, and water 800 g was ball milled for 10 h to form a paste. The above paste 100, 600 solids PTFE [9002-84-0] aq. dispersion 33, water 41, and 20% aq. 3-aminopropyltrimethoxysilane [919-30-2] soln. 2.4 g were stirred to give a coating material. The above compn. was applied to an Al plate, dried for 15 min, heated 20 min at 120-150.degree., and baked 15 min at 380.degree. to give a coating having vol. resistivity 0.1 .OMEGA.-cm.

ACCESSION NUMBER: 1983:49722 CAPLUS

DOCUMENT NUMBER: 99:89722

TITLE: Electrically conductive fluoropolymer coating materials

PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58025368	A2	19830215	JP 1981-124380	19810807
PRIORITY APPLN. INFO.:			JP 1981-124380	19810807

L11 ANSWER 103 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Punk-resistant binders for glass fiber insulation consists of a water-sol. formaldehyde-phenol resin (I) [9003-35-4] mixed with water-sol. formaldehyde-urea resin (II) [9011-05-6] with II comprising 5-50% of the binder solid content. Thus, a

compn. contg. 73% I and 27% II was mixed with NH₃ 20 (based on binder solid), (NH₄)₂SO₄ 4, and silane [7803-62-5] 0.36% to give a binder. Insulation made of glass fibers bonded with this binder had good moisture resistance and compressive strength and had loss-on-ignition

3-5% at 850.degree.F.

ACCESSION NUMBER: 1981:621044 CAPLUS

DOCUMENT NUMBER: 95:221044

TITLE: Fibrous insulation mat with anti-punking binder

system

INVENTOR(S): McHenry, Patricia A.

PATENT ASSIGNEE(S): Johns-Manville Corp., USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4294879	A	19811013	US 1980-212928	19801204
FI 8103876	A	19820605	FI 1981-3876	19811203
GB 2088918	A	19820616	GB 1981-36467	19811203
FR 2495628	A1	19820611	FR 1981-22726	19811204
JP 57121661	A2	19820729	JP 1981-194629	19811204
DE 3148081	A1	19820805	DE 1981-3148081	19811204
CA 1160513	A1	19840117	CA 1981-391567	19811204
PRIORITY APPLN. INFO.:			US 1980-212928	19801204

L11 ANSWER 104 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Two gas chromatog. methods were detd. *trans*-dichloroethene, *cis*-dichloroethene, and 1,1,1-trichloroethane in SiHCl₃. In the 1st method, the chlorohydrocarbons were preconc'd. by the head-space technique.

SiHCl₃ was seed. by reaction with KHF₂ to form water-sol. fluorosilicon complexes and the chlorohydrocarbons were detd. in the head space by gas chromatog. with a flame-ionization detector.

The column was packed with Chromosorb W-AW-DMCS. In the 2nd method, the sample is directly injected into the gas chromatograph and a mass spectrometer with focussed peaks was used as the detector. The detection limit was .apprx.0.1 ppm for the 2 methods.

ACCESSION NUMBER: 1981:95426 CAPLUS

DOCUMENT NUMBER: 94:95426

TITLE: Determination of halogenated hydrocarbons in silicon halides with two gas-chromatographic methods and a comparison of these analyses

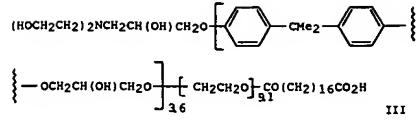
AUTHOR(S): Rath, H. J.; Wimmer, J.
 CORPORATE SOURCE: Wacker-Chemtronic, Ges. Elektron.-Grundstoffe m.b.H.,

SOURCE: Burghausen, D-8263, Fed. Rep. Ger.
 Fresenius' Zeitschrift fuer Analytische Chemie (1980), 303(1), 14-17

DOCUMENT TYPE: CODEN: ZACFAU; ISSN: 0016-1152

LANGUAGE: German

L11 ANSWER 105 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 GI



AB Glass fibers sized with a water-sol. epoxide are bonded with an aq. compn. contg. 4-6 wt.% poly(vinyl acetate) (I) [9003-20-7] and 1-3 wt.% adipic acid-tetraethylene glycol copolymer (II) [26677-98-5] to form mats having low-stiffness and good wet and dry conformability in molds. Final binder content was .apprx.5%. Thus, strands of glass filaments sized with an org. compn. prep'd. from water-sol. III, HOAc, CH₂ClMeCO₂(CH₂)₃S(OMe)₃ [2530-85-0], Cr nitrate, and NH₄Cl were dried, chopped, and distributed

in the form of a mat weighing 1.5-3.5 oz/ft². An aq. emulsion binder contg. I, II (acid value .apprx.15) (I-II wt. ratio 5.620:1.166), and

antifoaming agent was deposited on the mat, excess binder removed, and the mat dried, cured at 290-425.degree.F., and cooled.

ACCESSION NUMBER: 1979:492530 CAPLUS

DOCUMENT NUMBER: 91:92530

TITLE: Aqueous binder composition comprising a poly(vinyl acetate) and a polyester useful for glass fiber mats

INVENTOR(S): Dunbar, Sidney G.; Antle, Jeffrey L.

PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp., USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4156668	A	19790529	US 1978-876071	19780208

PRIORITY APPLN. INFO.: US 1978-876071 19780208

L11 ANSWER 106 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The pores in permeable subterranean formations around petroleum wells are plugged by injecting a slurry of fine solid particles suspended in an oil-in-water cationic emulsion in which the oil phase comprises a polymerizable polyepoxide, an aminoalkoxy silane, and a relatively water-sol. tertiary amine that is capable of catalyzing the polymer. Both the silane and the amine promote the wetting of solid surfaces by the oil phase, which subsequently forms a solid resin. The rate of polymer. is affected by the compn., temp., and pH of the soln. and the proportions of the components. Thus, an emulsion was prep'd. that contained TSX 679 [25068-38-6] (a polyepoxide emulsion) 3330, DMP-10 [25338-55-0] (a tertiary amine) 341, A-1100 [919-30-2] (an aminoalkoxy silane) 38, and 36 wt.% aq. HCl 76 cm³. Four batches of slurry were prep'd., with the 1st 2 batches each contg. 1 gal emulsion and 10 lb Imsil A-10 SiO₂ particles and the next 2 batches each contg. 1 gal emulsion and 15 lb SSA-1 SiO₂ flour. Each slurry was stirred 45 min at 85.degree.F. to coat the particles and then dild. with 1.5 gal hydroxyethyl cellulose [9004-62-0]. The sequential injection of the 4 slurries into a petroleum well increased the oil prodn. from 9 to 65 bbl/day and reduced the water prodn. from 720 to 520 bbl/day.

ACCESSION NUMBER: 1978:25439 CAPLUS

DOCUMENT NUMBER: 68:25439

TITLE: Plugging subterranean earth formations with aqueous epoxy emulsions containing fine solid particles

INVENTOR(S): Knapp, Randolph H.

PATENT ASSIGNEE(S): Shell Oil Co., USA

SOURCE: U.S., 7 pp. Cont.-in-part of U.S. 4,000,781.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4042031	A	19770816	US 1976-713758	19760812
US 4000781	A	19770104	US 1975-631774	19751113

PRIORITY APPLN. INFO.: US 1975-571195 19750424

L11 ANSWER 107 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Sealing compns. for pipe joints are prep'd. from stabilized microfine tetrafluoroethylene polymer [9002-84-0] powder, and water-repellent fillers. Because of its initial flowability, the compn. may be easily applied to the threading of pipes or injected in a backing cavity to create a latent sealant. Thus, Teflon 30 dispersion was treated with γ -aminopropyltriethoxysilane [919-30-2], blended by gentle stirring with a mixt. of water-sol. mica [12001-26-2] 50, attapulgite [1337-76-4] 15 and wollastonite [13983-17-0] 5 g, and frozen and thawed to improve viscosity to give the desired compn.

ACCESSION NUMBER: 1975:499434 CAPLUS

DOCUMENT NUMBER: 83:99434

TITLE: Fluorocarbon-based sealing compound

INVENTOR(S): Reick, Franklin G.

PATENT ASSIGNEE(S): Ebert, Michael, USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3879302	A	19750422	US 1973-411304	19730710

PRIORITY APPLN. INFO.: US 1973-377931 19730710

L11 ANSWER 108 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Water and oil resistance was imparted to wool fabrics by treatment with water-sol. 1:1-5 (mole ratio). .gamma.-

(glycidyloxy)propyltrimethoxysiloxane-3-(perfluoroctanoylamino)propyltric
 thoxysiloxane copolymer (I) (34937-15-0). Thus, iso-PrOH contg. 0.2 mole
 .gamma.- (glycidyloxy)propyltrimethoxysilane and 0.1 mole
 3-(perfluoroctanoylamino)propyltricethoxysilane was mixed with
 water and aniline-HCl and kept 14 hr at room temp. to give I. Worsted
 natural flannel contg. < 0.5% oil was coated by a compn. contg. 0.36% 1:5
 I to give a sample that had oil and water repellencies (American
 Association of Textile Chemists and Colorists, vol. 44, Sept. 1968) of 6
 and 100, resp.

ACCESSION NUMBER: 1972:407235 CAPLUS
 DOCUMENT NUMBER: 77:7235
 TITLE: Water- and oil-repellent fluoroamidoalkyl
 polysiloxanes
 PATENT ASSIGNEE(S): Nalco Chemical Co.
 SOURCE: Brit., 7 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1267224		19720315		
US 3666538		19720000	US 1969-848103	19690806

PRIORITY APPLN. INFO.: US 1969-848103 19690806

L11 ANSWER 109 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB A hydroformylated polybutadiene (I), i.e., contg. pendant hydroxymethyl and 3-hydroxypropyl groups, of mol. wt. 800-900 is prep'd. by exposure of the polybutadiene to synthesis gas at 350-60.degree. F. in soin in the presence of [Co(CO)₃PBu₂]₂ and is then esterified with maleic anhydride, succinic anhydride, or phthalic anhydride. These partial esters are reacted with Et3N, N,N-diethylcyclohexylamine, hexamethylenimine, N,N-dimethylbenzylamine, piperidine, NH₃, pyridine, triethanolamine, or morpholine to prep. water-sol. salts, which are mixed with .gamma.-aminopropyltri-ethoxysilane (A-1100) as a coupling agent to give aq. sizing compns. These compns.

are useful as forming sizes, i.e., for application to freshly drawn glass filaments, and as finishing sizes, i.e., for application to strands which are to be woven or twisted into multistrand units. The compns. also are compatible with laminating or molding resins and improve the adhesion between the glass fibers and rubber, thermoplastic resins, and thermoset resins. The sizing does not migrate when the fibers are heated during drying and does not require the use of dangerous, costly org. solvents during application. Thus, a mixt. of I (mol. wt. 900, 50% 1,2- and 40% 1,4-alkanes) 700, [Co(CO)₃PBu₂]₂ 6, and morpholine 70 g. was kept at 350-60.degree. F. under 1000-1100 psi. synthesis gas (1:4:1.0 H₂-CO vol. ratio) for 50 min. The H₂-CO vol. ratio was then increased to 15:20:1 at 380-90.degree. F. under 1400-1500 psig. for 85 min. The polymer soin. was freed of excess catalyst by treatment with 7 g. 10% H₃PO₄ at 250.degree. F. for 1 hr. followed by filtration. The solvent was removed in vacuo to give a hydroxylated polymer having mol. wt. 1600, O content 7.3%, OH no. 219, and 6.2 functional groups/mol. This polymer 158, toluene 260, and powd. maleic anhydride 59 g. were refluxed for 1.5 hrs. (0.7 ml. water was removed) to give a 48% soin. of the partial ester of the polymer which contained 8% unsatn. in the I backbone. After removal of the solvent in vacuo, the polymer was treated for 30 min. at 75-90.degree. F. with Et3N to give a water-sol. polymer salt. An aq. sizing compn. was prep'd. which contained 0.5% polymer salt and 1.0% A-1100 coupling agent. The adhesion between glass fibers and rubber closely approached the cohesive strength of the rubber when the glass fibers were dipped in the sizing compn., dried, coated with a rubber cement based on a butadiene-styrene polymer, heated to cure the coating, and laminated between natural rubber strips, which were then cured.

ACCESSION NUMBER: 1969:69099 CAPLUS
 DOCUMENT NUMBER: 70:69099
 TITLE: Laminates from glass fibers sized with
 hydroformylated
 polymer
 INVENTOR(S): Hertzweiller, Joseph K.; Cull, Neville L.; Hawley,
 Roger S.
 PATENT ASSIGNEE(S): Esso Research and Engineering Co.
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3425895	A	19690204	US 1965-489964	19650924

PRIORITY APPLN. INFO.: US 1965-489964 19650924

L11 ANSWER 110 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Laminates are formed between elastomers, plastics, and resins, and glass fibers sized with a water-sol. polymeric binder which consists of a polybutadiene-dicarboxylic acid anhydride amine salt adduct.

Thus, a polybutadiene of no.-av. mol. wt. 660 was prep'd. and 210 g. was dild. with 210 g. C6H₆. The soin. was heated for 3-5 hrs. at 410.degree. F. with 84 g. of maleic anhydride to form a viscous yellow oil adduct in 87% yield. The adduct (equiv.) was then heated at temps. up to 400.degree. F. with 0.25 equiv. of EtOH, Bu₂H, allyl alc., or decyl alc. to give a partial ester. A 2nd portion of the adduct was hydrolyzed by refluxing with H₂O at 300.degree. F. The adducts were then treated with N,N-diethylcyclohexylamine under N at 260-360.degree. F. for 2-4 hrs. to give water-sol. amine salts which were used as sizes for glass fiber in 0.5-2% soins. contg. 1% (.gamma.-aminopropyl)triethoxysilane (III). An adduct with a chain transfer function was prep'd. from I of no.-av. mol. wt. 447 with II at 365-90.degree. Adducts were also prep'd. with a high unsatd. polycarboxylic acid anhydride concn. and without a terminal chain transfer function. Soins. of the salts were prep'd. at 1% concn. contg. 1% III. Heat cleaned woven glass cloth was sized by immersion in the soin. followed by drying at temps. <21.degree. F. for times >30 min. The treated glass cloth was then laminated between

2 sheets of butadiene-styrene rubber by pressing at 1000 psi. and 292.degree. F. for 45 min. The rubber used contained 100 parts SBR 1500, 50 parts SRF black, 3 parts ZnO, 1 part stearic acid, 0.5 part Aminox stabilizer, 10 parts Flexon 290 oil extender, 2.5 parts S, and 0.4 parts Santocure NS. The strip adhesion tested at 2 in./min. pulling rate on an Instron was 28-80 lb./in. at room temp. and 8-39 lb./in. at 250.degree. F. These values were generally higher than those obtained using conventional sizes.

ACCESSION NUMBER: 1969:29915 CAPLUS
 DOCUMENT NUMBER: 70:29915
 TITLE: Sizing glass fibers with polybutadiene-dicarboxylic acid anhydride amino salt adducts
 INVENTOR(S): Hertzweiller, Joseph K.; Cull, Neville L.; Hawley,
 Roger S.
 PATENT ASSIGNEE(S): Esso Research and Engineering Co.
 SOURCE: U.S., 9 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3414432	A	19681203	US 1965-492760	19651004

PRIORITY APPLN. INFO.: US 1965-492760 19651004

L11 ANSWER 111 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB An improved sand consolidation is described in which an amino-functional organosilane is injected into the formations to be consolidated prior to introduction of thermosetting plastics or resins, which set and bind the sand particles of the formations together. Also, crit. catalyst proportions are selected to achieve higher plastic consolidated sand compressive strengths. The preferred amino-functional organosilane compnd. is Dow Corning Z-6020 (2-aminoethylaminopropyl)trimethoxysilane and related compds., although operable compds. are 1-trimethoxy-2-aminoethyl-2-aminopropylsilane and related compds. The preferred thermosetting plastics or resins are reaction products of a water-sol. aldehyde and a low-mol.-wt. hydroxy aryl compd., such as the phenol-formaldehyde resins, which are catalyzed by an alk. or acidic catalyst. The preferred catalyst system is a mixt. of guanidine carbonate

and NaOH in a wt. ratio ranging from 7:1 to 10:1. Thus, silica sand was packed in a plastic tube. The sand was satd. with salt water and flooded with oil to simulate an oil-reservoir sand. Then a soin. consisting of H₂O contg. 5 wt. NaCl and 1 vol. % of Z-6020 was passed through the sand.

HCHO, 13.5% MeOH), 20 ml. mixed m- and p-cresol, 18 g. guanidine carbonate, and 2.24 g. NaOH was then flowed into the sand. 1,3,5-Xylenol (1-10% by wt.) was added to provide for the specific formation temps. A second plastic tube was packed with sand and treated in the same manner as the first one, except that the salt water entering the sand immediately prior to introduction of the resin soin. contained no Z-6020. Each of the sand-packed tubes was placed in a thermostatted bath at 110.degree. F. to cure the resin. Compressive strengths of the treated sands were then measured. The compressive strength of the first sand, which

had received the Z-6020 preflush, was 920 psi.; and the compressive strength of the sand which was not treated with the silane was only 370 psi. Addnl. examples are given from field applications of base catalyzed plastic in oil wells.

ACCESSION NUMBER: 1967:57595 CAPLUS
 DOCUMENT NUMBER: 66:57595
 TITLE: Sand consolidation method
 INVENTOR(S): Spain, Horace H.
 PATENT ASSIGNEE(S): Esso Production Research Co.
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3297086			19670110	

PRIORITY APPLN. INFO.: US 19620330

L11 ANSWER 112 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB An aq. sizing soin. applied to glass fiber filaments during the forming of strands consists of a synthetic latex, e.g. poly(vinyl acetate) latex, as a binder; an alkenyl acyloxy silane in combination with γ -aminopropyltriethoxysilane (I) as a coupling agent; and a textile softener, e.g. an acid-solubilized fatty acid amide. A water-sol. melamine formaldehyde resin may be added to decrease the hardness of the strand and improve whiteness. In an example, 129.1 lb.

of an aq. dispersion of polyvinyl latex (55% by wt. solids) is dispersed in 80 gal. water in a mixing tank. Fifty lb. pelargonamide solubilized in water with AcOH is mixed with 70 gal. water at 130-60.degree.F. and added to the tank. Vinyltriethoxysilane 11.0 lb. and (I) 5.5 lb. are mixed sep. with equal amts. of cold water, added to each other, and then to the tank. The mixt. is then dild. with water to make 250 gal. sizing soin.

ACCESSION NUMBER: 1963:72068 CAPLUS

DOCUMENT NUMBER: 58:72068

ORIGINAL REFERENCE NO.: 58:1227a-c

TITLE: Sizing solution for glass fibers

PATENT ASSIGNEE(S): Pittsburgh Plate Glass Co.

SOURCE: 7 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GB 919317	19630220	GB		
DE 1154243		DE		

PRIORITY APPLN. INFO.: US 19590707

L11 ANSWER 113 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

GI For diagram(s), see printed CA Issue.

AB A sizing for glass fibers which is strongly adherent to the fiber surface to minimize the effects of moisture and high humidity and functions as a bonding agent to make the fibers receptive to resinous materials, adhesives, and coloring compns. used in manufg. structural materials, reinforced plastics, and coated fabrics and as a lubricating agent to make the fibers suitable for textile purposes is prep'd. by combining a poly(siloxanolate) (water-sol. salts of an unsatd. poly(siloxanol) having the general formula where M is an alkali metal,

one or more of the R groups is an unsatd. org. radical with less than 6 C atoms in a straight chain, the remaining R groups are incapable of inactivation of the unsatd. group, and R may be an R group or other groups

dependent on the silane from which the poly(siloxanolate) is formed) with a film-forming resinous polymer, preferably acid stable, in aq. medium to form a dispersion having a solids content of 1-5 wt. %. Fatty-acid-type lubricants for use in amines, amides, and their water-sol. salts may be added in amounts of 0.1-4 wt. % for lubricity. Sized glass fibers are air-dried and heated to 200-300.degree. F. for 5-30 min. Dispersing 3 wt. % of a poly(vinyl acetate) dispersion (55% solids) and 0.5% Bu2 phthalate in aq. medium, treating with HCl to reduce the pH to 3-4, adding Na vinyl poly(siloxanolate) with a resultant pH rise to about 6 yields the size which is applied as an aq. dispersion on glass fibers by a roll

applicator as the fibers attenuated from the molten streams issuing from the bushing are gathered together to form bundles. Examples of sizes with other ingredients are given. U.S. 2,392,805 (C.A. 40, 29524).

ACCESSION NUMBER: 1957:63439 CAPLUS

DOCUMENT NUMBER: 51:63439

ORIGINAL REFERENCE NO.: 51:15090b-f

TITLE: Forming coated twisted yarns and woven fabrics, and the resultant article

INVENTOR(S): Blefield, Lawrence P.; Philipps, Thomas E.

PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2799598		19570716		US

L11 ANSWER 114 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
 AB Fibrous materials can be impregnated with a mixt. of a water-sol. silicate or a water-sol. metal salt of a hydrocarbon silanetriol and a water-sol. amino resin, dried, and cured to impart a water-repellent finish durable to prolonged laundering or repeated dry cleaning. The treated material has also shrink and crease resistance imparted by treatment with the aminoplast alone. For example, bleached, unmercerized, 80 x 80 cotton poplin is padded through an aq. soin. contg. Na Me silicate 3.9, methylated trimethylolmelamine 10, triethanolamine-HCl 1, and urea 0.05%. After drying at 225.degree. F. the material is divided into samples which are cured at 350.degree. F. for 5 and 15 min., resp., and then washed in an aq. soin. of 0.1% soap and 0.1% Na2CO3.

Both samples have good water repellency and spot resistance. The spray ratings of each are the same before and after washing or dry cleaning.

ACCESSION NUMBER: 1957:41399 CAPLUS

DOCUMENT NUMBER: 51:41399

ORIGINAL REFERENCE NO.: 51:7734g-i

TITLE: Silicate-aminoplast compositions and textiles coated therewith

INVENTOR(S): Cooke, Theodore F.; Fluck, Linton A.; Roth, Philip B.

PATENT ASSIGNEE(S): American Cyanamid Co.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2785145	19570312	US		

L11 ANSWER 115 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Addn. of 10.6 g. PC13 to 40 g. EtC(OEt)2 led to much heat evolution with a temporary formation of a colorless ppt. After 2 hrs. on a steam bath the reaction mixture yielded 10.1 g. EtCO2Et, 9.8 g. (EtO)3P, and 9.9 g. EtC(OEt)2P(OEt)2 (I), b14 140-2.degree., d2020 1.0353, n20D 1.4324. I treated with H2O and a little HCl slowly hydrolyzed and after 2 weeks

gave a homogeneous soin. which on distn. yielded a product, b12

108-10.degree., n 1.4265, which formed a semicarbazone, m. 160-3.degree., in very low yield (this is used as a confirmation of the above structure). (EtO)3P (28 g.) slowly treated with 15.5 g. EtCOC1 and the mixt. distd. gave 14.5 g. EtCOP(OEt)2, b10 100-5.25.degree., d2020 1.0893, n20D 1.4230; the residue was a water-sol. solid. Repeated distn. of the above product gave an extended fraction (b8 67-121.degree.) from

which only some 30% product, b8 100-5-2.5.degree., d2020 1.080, n20D 1.4201, was

obtained, and further distn. was similarly unsatisfactory. This product treated in aq. soin. with Na nitroprusside and aq. NaOH gave a red color. With aq. EtOH, NaOAc, and H2NCONHNH2.HCl it slowly gave the semicarbazone,

n. 160-2.degree., identical with that cited above. Letting EtCOP(OEt)2 stand overnight with HCl(OEt)3 in aq. EtOH failed to yield any I, and only

the essentially unreacted ester, b16 118-19.5.degree., d2020 1.0715, n20D 1.4170, was recovered. Formation of I is represented by initial addn. of the components to yield EtC(OEt)2C1 and EtCOPC12; the former product then reacts with P(OEt)3 that is formed in the mixt. by the Arbusov reaction and yields I and EtC1. PC13 (15.7 g.) and 40 g. EtC(OEt)3 kept 2.5 hrs. on a steam bath (a little ppt. formed) and the mixt. distd. gave 21.5 g. EtCO2Et and 5.5 g. (EtO)2PC12, b25 52-4.degree., d2020 1.0871, n20D 1.4344.

Similar reaction with 39.17 g. PC13 and 50 g. EtC(OEt)3 gave a considerable ppt. and yielded 34 g. crude EtCO2Et and 12 g. EtCOPC12, b. 116-18.degree., d2020 1.2373, n20D 1.4750. Thus the reactions with various proportions of reactants can be shown as: EtC(OEt)3 + PC13 $\xrightarrow{\text{fwdarw.}}$ EtCO2Et + EtC1 + EtCOPC12; 2 EtC(OEt)3 + PC13 $\xrightarrow{\text{fwdarw.}}$ 2 EtC1 + (EtO)2PC12 + 2 EtCO2Et; 3 EtC(OEt)3 + PC13 $\xrightarrow{\text{fwdarw.}}$ 3 EtCO2Et + 3 EtC1 + P(OEt)3. Arnold [Ann. 240, 194 (1887)] described a reaction of PC13 with 1 mole of HCl(OEt)3, which presumably gave some (EtO)3P, along with EtC1 and HCO2Et. Bassett [Chem. News 7, 158 (1863)] used the 1:3 reagent ratio and claimed the formation of mono-Et ester of H3PO3. Friedel and Ladenburg [Ber. 3, 17 (1870)] from PC13 with Et silicopropionate obtained

a mixt. b. 110-50.degree., from which no individuals were isolated (the statement of Post [Chemistry of Aliphatic Orthoesters, 1943, p. 64 (C. A. 37, 4404, 4)] is misleading). PC13 (44.1 g.) with 50 g. Si(OEt)4 showed visible action heating 4 hrs. on a steam bath yielded no EtC1 distn. of the mixt. gave 27.5 g. EtCOPC12, b. 116-18.degree., d2020 1.3160,

14 g. (EtO)2SiC12, b. 137-8.degree., d2020 1.1290, 13.1 g. (EtO)2SiC1, b. 154-6.5.degree., d2020 1.0460, 7.2 g. intermediate cut, b26 63-86.degree., and 8.8 g. mixt., b. 120-50.degree.. No (EtO)3P could be isolated.

Other reactant proportions gave even less well-defined products. The analyses for P in the presence of Si were run by amperometric titration (cf. Saikina and Toropova, C.A. 48, 1889h).

ACCESSION NUMBER: 1954:56420 CAPLUS

DOCUMENT NUMBER: 48:56420

L11 ANSWER 115 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
ORIGINAL REFERENCE NO.: 48:99051,9906a-g
TITLE: The action of phosphorus trichloride on ethyl
orthopropionate and ethyl orthosilicate
AUTHOR(S): Abuzorov, B. N.; Bogonostseva, N. P.
CORPORATE SOURCE: Kazan State Univ.
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya
(1953) 484-9
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

L11 ANSWER 116 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN
AB Preferentially water-sol. detergent-type sulfonic
acids (I) and preferentially oil-sol. sulfonic acids (II) are obtained as
sep. fractions by extg. with a chlorinated aliphatic or aromatic solvent
at 75-100.degree. F., the sludge resulting from the treatment of
hydrocarbon oil with 95% or stronger H₂SO₄. These acids are then
neutralized, the solvent is removed, and (II) removed by washing the
mixt. with a hydrocarbon oil having a distn. range of from 150.degree. to
350.degree. F.
ACCESSION NUMBER: 1951:12481 CAPLUS
DOCUMENT NUMBER: 45:12481
ORIGINAL REFERENCE NO.: 45:2197e-f
TITLE: Recovery of sulfonic acids from sulfuric acid sludges
INVENTOR(S): Bransky, David W.; Lemmon, Norman E.
PATENT ASSIGNEE(S): Standard Oil Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2530757	---	19501121	-----	US

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	307.73	307.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-75.52	-75.52

STN INTERNATIONAL LOGOFF AT 13:42:27 ON 30 OCT 2003

L11 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The present invention provides a water sol. or water dispersible fluorochem. silane represented by the general formula: X-MfnMhmMar-G wherein X represents the residue of an initiator or hydrogen; Mf represents units derived from one or more fluorinated monomer; Mh represents units derived from one or more non-fluorinated monomer; Ma represents units having a silyl group represented by SiY4Y5Y6, wherein each of Y4, Y5 and Y6 independently represents an alkyl group, an aryl group or a hydrolyzable group; G is a monovalent org. group comprising the residue of a chain transfer agent; n represents a value of 1 to 100; m represents a value of 0 to 100; and r represents a value of 0 to 100; and n+m+r is at least 2; with the proviso that at least one of the following conditions is fulfilled: (a) G contains a silyl group SiY1Y2Y3, wherein Y1, Y2 and Y3 each independently represents an alkyl group, an aryl group or a hydrolyzable group and at least one of Y1, Y2 and Y3 represents a hydrolyzable water solubilizing group or (b) r is at least 1 and at least one of Y4, Y5 and Y6 represents a hydrolyzable water solubilizing group. A material was prep'd. by telomerization of N-Me perfluoroctyl sulfonamido ethylacrylate, A-160, and A-174, followed by reaction with Carbowax 550.

a phone related pct

ACCESSION NUMBER: 2002:553099 CAPLUS

DOCUMENT NUMBER: 137:109984

TITLE: Water soluble or water dispersible fluorochemical silanes for rendering substrates oil and water repellent.

INVENTOR(S): Dams, Rudi

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1225188	A1	20020724	EP 2001-200208	20010119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
WO 2002057329	A1	20020725	WO 2002-US1675	20020117
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: EP 2001-200208 A 20010119

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT